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UNITED STATES DEPARTMENT OF AGRICULTURE
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THE RESULTS OF PHYSICAL TESTS OF ROAD-BUILDING ROCK

COMPILED BY

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Division of Tests, Bureau of Public Roads

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INTRODUCTION

This bulletin gives the results of tests of all samples of ledge rock made by the Bureau of Public Roads to January 1, 1928, classified alphabetically according to location.[1] In this revision of the earlier bulletins, each entry has been checked back to the original records, and a number of tests on manufactured road-building materials have been omitted. The results of tests of approximately 6,000 samples are now available in this bulletin, and these tests represent road-building material from practically all parts of the United States.

PHYSICAL PROPERTIES OF ROAD-BUILDING ROCK

The value of a rock for road building depends largely upon the extent to which it will resist the destructive influences of traffic and the weather. The most important physical properties are hardness, toughness, and soundness. Hardness is the resistance which the rock offers to the displacement of its surface particles by abrasion, toughness is the resistance which it offers to fracture under impact, and soundness is the resistance offered to the effects of weathering. The hardness of a rock is determined by both the Dorry hardness test and the Deval abrasion test. The abrasion test is also a measure of the toughness of rock and supplements in this respect the impact test for toughness. Soundness is a characteristic of rock which has not been directly measurable by ordinary laboratory methods.[2] It

[1] This publication supersedes Department Bulletins: 370, The Results of Physical Tests of Road-Building Rock; 670, The Results of Physical Tests of Road-Building Rock in 1916 and 1917; and 1132, The Results of Physical Tests of Road-Building Rock from 1916 to 1921, inclusive, and supplements the data in those bulletins.

[2] The sodium sulphate soundness test has been proposed as a measure of the soundness of rock. It consists essentially of alternately immersing the test sample in a saturated solution of sodium sulphate for 20 hours and drying the sample at 100° C. for 4 hours. Five cycles usually constitute a test. The soundness of the rock is determined by the appearance of the sample after the test. Recent investigations have disclosed many difficulties with this test which may prevent definite conclusions being drawn from the test results. Although considerable work is now being done to overcome the objectionable features of the test, no satisfactory test procedure has been formulated to date.

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is probably related to the absorptive properties of the material, and may thus be approximately determined by consideration of the results of the absorption test. Brief descriptions of these tests follow.[3]

DORRY HARDNESS TEST

Hardness is determined by drilling a cylindrical rock core 25 millimeters in diameter, from the specimen under examination and subjecting it to the abrasive action of quartz sand fed upon a revolving steel disk. The end of the specimen is worn away in inverse ratio to its hardness, and the amount of loss is expressed in the form of a coefficient as follows:

$$\text{Coefficient of hardness} = 20 - \frac{W}{3}$$

where W is the loss in weight after 1,000 revolutions of the disk.[4]

TOUGHNESS TEST

Toughness is determined by subjecting a cylindrical test specimen 25 millimeters high and 25 millimeters in diameter to the impact produced by the fall of a 2-kilogram hammer upon a steel plunger whose lower end is spherical and rests on the test specimen. The energy of the blow is increased by increasing the height of fall of the hammer 1 centimeter after each blow. The height of fall in centimeters at failure of the specimen is called the toughness.

DEVAL ABRASION TEST

This test is a measure of the combined action of abrasion and impact and is considered the most important test for road-building rock. The test sample consists of approximately 50 pieces as nearly cubical as possible, weighing 5,000 grams, and broken by hand in the laboratory from a large piece of rock. The sample is tested in a large cylinder which is mounted at an angle of 30° with the axis of rotation of the testing machine. The rock fragments forming the charge are thus thrown from end to end of the cylinder twice during each revolution and strike and rub against each other and the sides of the cylinder. After 10,000 revolutions the charge is screened over a No. 12 sieve and the amount passing is expressed as a percentage of the initial weight and is called the per cent of wear. The French coefficient of wear is calculated as follows:

$$\text{French coefficient of wear} = \frac{40}{\text{Per cent of wear}}$$

SPECIFIC GRAVITY, WEIGHT PER CUBIC FOOT, AND ABSORPTION

The weight per cubic foot is calculated from the specific gravity obtained on a sample of 10 pieces weighing 1,000 grams by the usual displacement method. The gain in weight of the sample after 24 hours' immersion in water is used to calculate the absorption.

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[3] More specific descriptions of these tests may be found in Department Bulletin 347, Methods for the Determination of the Physical Properties of Road-Building Rock, and Department Bulletin 1216, Revised, Tentative Standard Methods of Sampling and Testing Highway Materials.

[4] On account of the lack of steel-tired traffic, this test is now considered to be of little importance. It has largely been replaced by the Deval abrasion test, the results of which are influenced by the hardness of the material under test. The hardness test is still made, however, because the information obtained from the three tests, hardness, toughness, and abrasion, furnishes a more complete knowledge of the material than would be obtained if this test were omitted.

CRUSHING STRENGTH OR COMPRESSION TEST

This test is made on a cylindrical specimen 2 inches high and 2 inches in diameter. Both ends of the specimen are sawed at right angles to the axis of the cylinder and carefully ground to plane surfaces. The cylinder is then tested in compression in a suitable universal testing machine at a speed of 0.1 inch or less per minute. A small spherical bearing block is placed between the moving head of the machine and the specimen. At least two determinations are made and the average is reported as the unit crushing strength, calculated in pounds per square inch. This test is made only when specifically requested and is considered not necessary in the usual examination of rock.

TYPES OF ROCK

The rocks commonly used in road building include the types shown in Table 1.

TABLE 1.—*General classification of rock*

Class	Type	Family
Igneous	Intrusive (plutonic)	Granite.
		Syenite.
		Diorite.
		Gabbro.
		Peridotite.
	Extrusive (volcanic)	Rhyolite.
		Trachyte.
		Andesite.
		Basalt and diabase.
Sedimentary	Calcareous	Limestone.
		Dolomite.
	Siliceous	Shale.
		Sandstone.
		Chert (flint).
Metamorphic	Foliated	Gneiss.
		Schist.
		Amphibolite.
	Nonfoliated	Slate.
		Quartzite.
		Eclogite.
		Marble.

IGNEOUS ROCK

Igneous rocks include all varieties of rock which have solidified from a state of liquid fusion. The structure or manner of mineral aggregation is influenced largely by the rate of cooling of the fused rock magma. The intrusive or plutonic rocks such as granite, diorite, and gabbro, having cooled slowly at great depths below the earth's surface, usually possess large and well-developed mineral components, whereas the extrusive or volcanic varieties, rhyolite, basalt diabase, etc., cooling more rapidly on the earth's surface, are finer grained and frequently show so-called porphyritic structures owing to the development of larger crystals in a dense, fine-grained ground mass. In general, the fine-grained volcanic rock are harder and tougher than the coarser grained plutonic rock, especially granite.

The term "trap" is frequently used to designate a dark-colored, heavy rock of igneous origin. The families of rock included in this description are diorite and gabbro of the intrusive type, and andesite, basalt, diabase, and rhyolite of the extrusive type. The essential physical characteristic usually associated with trap rock is high toughness, but, as mentioned above, considerable variation in tough-

ness may be expected in this group of rocks. Trap rock is also highly resistant to abrasion, as determined in the Deval abrasion test. The variations in toughness found between different families of trap rock do not in general appear in the abrasion test

SEDIMENTARY ROCK

Sedimentary rocks are made up of mineral or shell fragments which have been transported mainly by water and deposited in sea or lake depressions in more or less parallel layers and subsequently cemented together through pressure and the formation of secondary mineral compounds. Rocks of this class are usually distinctly bedded or stratified and may vary widely in physical properties.

Sedimentary rocks are divided into two types, calcareous and siliceous. The calcareous type includes limestone and dolomite, or magnesium limestone, which are the rocks most widely used for road building. Sandstone is the most important rock included in the siliceous type. All of these rocks may be expected to vary widely in physical characteristics, but it is probable that the greatest range in hardness and toughness will be found in sandstone. Average values as determined by the tests described in this bulletin show limestone, dolomite, and sandstone to be appreciably softer and less tough than the igneous rocks. Considering all samples tested, sandstone is found to be of equal toughness but less resistant to abrasion than limestone and dolomite.

METAMORPHIC ROCK

Metamorphic rocks are classified in two types, the foliated or schistose, which have a parallel arrangement of their mineral constituents, and the nonfoliated or massive. These structures have been produced by long-continued shearing and compressive forces acting on either igneous or sedimentary rocks, thereby changing the composition and structure of the original rock masses in varying degrees.

Marble and quartzite are the most important families in the nonfoliated type and correspond to limestone and sandstone, respectively. Marble is generally less hard and tough than limestone. Conversely, quartzite is characterized by relatively high toughness, extreme hardness, and resistance to abrasion. It agrees in these respects with the best types of trap rock. In the foliated type, gneiss and schist, metamorphosed from granite, are the important families. Both of these, in general, correspond in physical properties with granite but are characterized by their tendency to crush into long, thin fragments which may render them unsuitable for many road-building purposes. In the test for toughness considerable variation in results may be found between cores drilled perpendicular to the planes of stratification and those drilled parallel to such planes, the former giving the higher results.

AVERAGE TEST RESULTS

Table 2 presents average values for the common rocks used in road building and a few of the rarer rocks occasionally used. The values given in this table do not include all samples of each type of rock tested by the bureau, but a sufficient number are represented to furnish values which may be considered as averages for the various rocks shown.

TABLE 2.—*Average physical properties of rock*

Rock	Weight	Per cent of wear	Hardness	Toughness
	Lbs. per cu. ft.			
Granite	167	4.3	18.3	11
Syenite	171	3.3	18.3	15
Diorite	179	3.0	18.2	17
Gabbro	185	3.0	17.7	14
Peridotite	182	4.0	14.2	11
Rhyolite	159	3.7	18.3	19
Trachyte	170	2.9	18.1	24
Andesite	166	3.9	17.0	18
Basalt	177	3.0	17.1	18
Diabase	186	2.4	18.0	22
Limestone	165	5.0	14.1	9
Dolomite	170	5.5	14.9	9
Sandstone	164	6.2	14.4	10
Chert	159	9.4	18.2	12
Gneiss	172	4.9	17.4	10
Schist	180	4.7	16.6	13
Amphibolite	188	2.8	17.5	19
Quartzite	169	3.2	18.8	18
Eclogite	194	2.4	18.4	22
Marble	173	5.7	13.1	6

INTERPRETATION OF RESULTS OF PHYSICAL TESTS

To assist in the interpretation of the results of physical tests, limiting values for the more important types of road construction are given in Table 3. Comparing the results of tests on a sample of rock with the limits shown in the table gives a general idea of the types of road construction for which the material is best suited. It must be emphasized, however, that these limiting values represent average conditions only. For any given material, a number of factors such as type of rock, character and volume of traffic, and the character of available material will influence the interpretation of the results of tests.

TABLE 3.—*General limiting test values*

Type of construction	Per cent of wear, not more than—	Toughness, not less than—
Water-bound base course	8	----------
Bituminous concrete base	6	6
Concrete base course	8	5
Water-bound macadam	6	6
Bituminous macadam	6	6
Bituminous concrete	5	6
Concrete surface course	6	6

Granite, gneiss, schist, sandstone, and quartzite should not, in general, be used in the wearing course of water-bound macadam because of their lack of binding properties. Shale and slate should never be used in this construction.

Values shown in Table 3 correspond to values given in the tentative standard specifications of the American Association of State Highway Officials.

Table 4 shows the geographical distribution of the samples reported in this bulletin.

TABLE 4.—*Geographical distribution of samples tested*

State	Samples	State	Samples	State	Samples
	Number		*Number*		*Number*
Alabama	66	Massachusetts	329	South Carolina	59
Arizona	54	Michigan	108	South Dakota	39
Arkansas	101	Minnesota	29	Tennessee	101
California	109	Mississippi	23	Texas	134
Colorado	32	Missouri	55	Utah	25
Connecticut	82	Montana	14	Vermont	52
Delaware	43	Nebraska	19	Virginia	752
District of Columbia	8	Nevada	1	Washington	220
Florida	39	New Hampshire	55	West Virginia	260
Georgia	313	New Jersey	101	Wisconsin	172
Idaho	11	New Mexico	38	Wyoming	4
Illinois	142	New York	221	Alaska	1
Indiana	212	North Carolina	239	Hawaii	2
Iowa	35	North Dakota	(1)	Porto Rico	13
Kansas	53	Ohio	318		
Kentucky	82	Oklahoma	89	Total	5,937
Louisiana	14	Oregon	20		
Maine	130	Pennsylvania	676		
Maryland	172	Rhode Island	70		

[1] None.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*

ALABAMA

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1478	Anniston	Calhoun	Limestone	(2)	168	0.27	3.9	10.3	15.2	9
4382	do	do	Quartzite	(2)	165	.20	3.4	11.8	19.7	21
13387	do	do	Limestone	(2)	170	.22	6.8	5.9	14.7	4
13388	do	do	Magnesium limestone	(2)	174	.64	6.0	6.7	17.3	9
13390	do	do	Siliceous dolomite	(2)	175	.30	4.6	8.7	17.3	6
13504	do	do	Dolomite	(2)	172	.88	7.2	5.6	(2)	(2)
13506	do	do	Sandstone	(2)	154	1.33	6.1	6.6	19.1	10
13507	do	do	Limestone	(2)	169	.16	4.7	8.5	15.3	8
13508	do	do	do	(2)	172	.68	11.6	3.4	(2)	(2)
13509	do	do	do	(2)	140	.12	5.4	7.4	16.0	6
13510	do	do	Dolomite	(2)	175	.38	5.0	8.0	16.0	8
13389	Anniston (near)	do	Limestone	(2)	169	.27	4.8	8.3	14.7	9
1108	Francis	do	Chert	(2)	153	1.74	9.0	4.4	19.3	11
14450	(1)	do	Quartzite schist	(2)	164	.38	4.4	9.1	18.7	19
28092	Jackson	Clarke	Limestone	(2)	157	2.97	(2)	(2)	(2)	(2)
26048	(1)	Clay	Quartz	(2)	163	.23	5.4	7.4	19.7	7
20821	(1)	Colbert	Bituminous limestone	(2)	144	1.19	4.7	8.5	3.3	5
2450	Cullman	Cullman	Sandstone	(2)	153	.94	4.8	8.3	15.1	10
2451	do	do	Limestone	(2)	168	.55	3.4	11.8	15.1	8
2856	do	do	do	(2)	165	.62	6.8	5.9	12.9	6
7587	do	do	Sandstone	(2)	156	.97	9.2	4.3	18.5	6
7588	do	do	do	(2)	159	.11	6.6	6.1	17.8	6
7786	do	do	Feldspathic sandstone	(2)	156	2.00	8.6	4.7	15.6	7
5054	Selma	Dallas	Limestone	(2)	165	1.56	7.8	5.1	15.0	7
7031	Gadsden	Etowah	do	(2)	168	.31	4.7	8.5	15.4	4
805	Berry	Fayette	Siliceous limestone	(2)	168	.34	3.1	12.9	(2)	(2)
23537	do	do	Feldspathic sandstone	(2)	155	3.77	5.6	7.1	15.3	6
24864	Rockwood	Franklin	Limestone	(2)	158	2.69	7.2	5.6	11.7	6
426	Farmsdale	Hale	Lime rock	(2)	162	2.56	17.4	2.3	(2)	(2)
10138	Bridgeport	Jackson	Oolitic limestone	(2)	168	.21	4.4	9.1	15.7	5
20354	Limrock	do	Limestone	(2)	168	.16	4.4	9.1	16.3	7
16112	(1)	do	Crystalline limestone	(2)	174	.57	3.8	10.5	15.3	8
16113	(1)	do	Argillaceous limestone	(2)	166	.34	6.2	6.5	18.0	6

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

ALABAMA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
391	Birmingham	Jefferson	Chert	(2)	162	1.28	10.2	3.9	(2)	(2)
392	do	do	do	(2)	159	2.24	8.2	4.9	(2)	(2)
393	do	do	do	(2)	153	3.40	9.5	4.2	(2)	(2)
1517	do	do	Limestone	(2)	159	2.91	6.5	6.2	15.4	10
9985	do	do	do	(2)	168	.55	5.0	8.0	15.3	6
442	Birmingham (6 miles northeast of)	do	Dolomite	(2)	168	1.24	5.7	7.0	(2)	(2)
966	Leeds	do	Chert	(2)	162	.64	15.8	2.5	(2)	(2)
19997	Florence	Lauderdale	Weathered chert	(2)	(2)	(2)	28.0	1.4	(2)	(2)
19998	do	do	do	(2)	(2)	(2)	25.1	1.6	(2)	(2)
24714	do	do	Cherty limestone	(2)	151	3.61	5.1	7.8	18.0	29
19981	Opelika (near)	Lee	Biotite gneiss	(2)	162	2.56	25.3	1.6	(2)	(2)
16186	Athens (near)	Limestone	Chert	(2)	146	4.10	10.7	3.7	(2)	(2)
16188	Pettey (near)	do	Dolomitic marble	(2)	168	.60	4.4	9.1	14.7	7
16189	do	do	Crystalline limestone	(2)	167	.79	5.3	7.5	13.3	5
21348	Huntsville (near)	Madison	Shale	(2)	(2)	(2)	22.8	1.8	(2)	(2)
12812	Flint (near)	Morgan	Limestone	(2)	167	.19	6.0	6.7	13.3	6
2856	Hartselle (near)	do	do	(2)	165	.62	6.8	5.9	12.9	6
16074	Hartselle (north of)	do	Crystalline limestone	(2)	165	.81	5.0	8.0	16.3	6
16072	Lacon (south of)	do	Limestone	(2)	167	.50	3.4	11.8	15.3	8
16073	Lacon (north of)	do	do	(2)	168	.45	3.5	11.4	15.3	9
6856	New Decatur	do	Crystalline limestone	(2)	172	.95	3.9	10.3	15.4	7
12757	(1)	do	Limestone	(2)	168	.11	3.8	10.5	14.5	9
12758	(1)	do	do	(2)	166	.38	5.4	7.4	11.9	7
29348	(1)	do	do	(2)	161	.81	4.4	9.1	15.3	7
29349	(1)	do	do	(2)	168	.65	4.2	9.5	15.0	7
7937	Leeds (near)	Saint Clair	Weathered chert	(2)	143	.54	13.8	2.9	(2)	(2)
23156	Pell City	do	Chert	(2)	138	5.12	10.2	3.9	(2)	(2)
21295	Brownson	Talladega	Marble	(2)	(2)	(2)	(2)	(2)	9.3	4
11506	Gantts Quarry	do	do	(2)	169	.29	5.9	6.8	9.7	4
2854	Vance (near)	Tuscaloosa	Limestone	(2)	168	.10	4.6	8.7	17.7	8
1575	Furman	Wilcox	do	(2)	162	2.76	4.8	8.3	10.3	7
1643	Pine Apple	do	do	(2)	156	4.89	5.3	7.5	11.0	6
1580	Snow Hill	do	do	(2)	162	2.57	4.5	8.9	17.1	8

ARIZONA

23032	Bisbee	Cochise	Marble	14,020	169	0.19	6.8	5.9	10.7	4
23487	do	do	Chert	(2)	166	1.14	(2)	(2)	19.2	15
23609	do	do	Argillaceous limestone	(2)	167	1.62	(2)	(2)	6.3	(2)
23610	do	do	Ferruginous chert	(2)	180	1.42	(2)	(2)	19.5	14
23611	do	do	Marble	(2)	168	.84	(2)	(2)	12.5	5
28328	do	do	do	(2)	170	.25	7.6	5.3	(2)	(2)
28329	do	do	Rhyolite	(2)	162	.70	5.4	7.4	16.0	12
28330	do	do	Siliceous limestone	(2)	156	3.54	10.4	3.8	(2)	(2)
28331	do	do	Altered rhyolite	17,250	180	.23	5.6	7.1	18.0	8
28332	do	do	Quartzite	(2)	174	.28	5.8	6.9	16.7	16
28333	do	do	Limestone	11,565	168	.37	5.2	7.7	16.0	6
28334	do	do	Ferruginous limestone	22,590	169	.45	5.2	7.7	14.7	7
28335	do	do	Marble	35,390	177	.16	4.8	8.3	13.7	9
28336	do	do	Limestone	10,540	169	.20	6.8	5.9	13.0	5
28337	do	do	do	21,960	171	.28	4.8	8.3	16.0	9
7837	(1)	do	do	(2)	168	.41	5.3	7.5	18.1	6
21826	Flagstaff	Coconino	Dolomite	(2)	154	5.41	12.1	3.3	15.7	[3] 8 3
21827	do	do	Altered trachy-andesite	(2)	140	6.19	21.2	1.9	4.7	3
26928	do	do	Olivine basalt	(2)	176	2.13	4.6	8.7	17.3	11
15296	Grand Canyon	do	Calcareous sandstone	(2)	134	8.41	23.3	1.7	0.0	2
15297	do	do	Siliceous limestone	(2)	153	4.20	7.9	5.1	18.7	6
15298	do	do	Chert	(2)	120	4.50	13.7	2.9	(2)	(2)
15299	do	do	Dolomite	(2)	162	2.28	5.0	8.0	15.0	6
26941	do	do	do	(2)	174	1.01	6.9	5.8	14.7	3
26942	do	do	Sandstone	(2)	138	6.79	11.4	3.5	2.7	4
26943	do	do	Chert breccia	(2)	158	2.31	7.2	5.6	19.0	7
24720A	(1)	do	Quartzite	(2)	163	.76	3.0	13.3	18.7	12
24720B	(1)	do	Ferruginous quartzite	(2)	165	.47	2.9	13.8	17.7	12
24721A	(1)	do	Quartzite	(2)	167	.18	3.2	12.5	18.7	13
24721B	(1)	do	Indurated sandstone	(2)	163	.51	3.2	12.5	18.7	13
23464	Globe	Gila	Limestone	(2)	168	.13	(2)	(2)	15.0	5
22688	Strawberry	do	Sandstone	(2)	146	6.57	6.4	6.2	11.3	12 [3] 6
22689	do	do	Siliceous limestone	(2)	149	6.32	7.2	5.6	11.2	10 [3] 5
22649	Strawberry (5 miles west of)	do	Calcareous sandstone	(2)	141	8.51	14.3	2.8	9.0	5
26781	Clifton	Greenlee	Quartzite	(2)	166	.30	3.6	11.1	19.3	16
4103	Phoenix	Maricopa	Altered andesite	(2)	162	1.95	2.4	16.7	17.6	23
4408	do	do	Schist	(2)	187	0.31	3.1	12.9	17.5	14
28601	do	do	Dolomitic limestone	(2)	(2)	(2)	6.0	6.7	(2)	(2)
28602	do	do	do	(2)	(2)	(2)	5.8	6.9	(2)	(2)
23802	Tempe	do	Altered trachyte	(2)	166	1.98	4.0	10.0	16.3	15
25362	Heber (18½ miles southwest of)	Navajo	Ferruginous sandstone	(2)	141	5.51	12.4	3.2	12.3	4
25363	Heber (12 miles southwest of)	do	Sandstone	(2)	160	1.03	3.5	11.4	18.7	20
25364	Heber (8 miles southwest of)	do	Siliceous dolomite	(2)	147	5.08	7.2	5.6	10.0	4
25365	Heber (near)	do	do	(2)	144	5.08	8.8	4.5	13.7	4
25366	Heber (5½ miles northeast of)	do	do	(2)	138	8.00	11.9	3.4	12.3	4

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

ARIZONA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
25367	Heber (13 miles northeast of)	Navajo	Siliceous dolomite	(2)	148	5.97	8.1	4.9	14.7	5
11642	Tucson (west of)	Pima	Siliceous limestone	(2)	166	.48	5.4	7.4	15.5	5
24407	Tucson (near)	do	Siliceous dolomite	32,790	178	.30	4.4	9.1	16.0	10
24408	do	do	do	41,775	177	.14	3.5	11.4	15.3	13
24194	Prescott (3 miles southwest of)	Yavapai	Amphibolite	(2)	192	.21	2.5	16.0	17.7	18
24195	do	do	Quartz	(2)	165	.03	6.3	6.3	19.3	5
24210	do	do	Feldspathic sandstone	(2)	169	.49	3.2	12.5	18.7	15
28002	Puntenney	do	Dolomite	(2)	161	2.34	4.8	8.3	15.3	8
28003	do	do	Limestone	(2)	159	2.30	5.2	7.7	15.3	6

ARKANSAS

17696	Cotter	Baxter	Argillaceous dolomite	(2)	163	3.96	6.1	6.6	14.0	5
17932	do	do	do	(2)	166	4.53	(2)	(2)	12.0	4
4754	Heber Springs	Cleburne	Slate	(2)	168	.72	5.6	7.1	9.3	16
17475	do	do	Argillaceous sandstone	(2)	(2)	(2)	4.0	10.0	(2)	(2)
5680	(1)	do	do	(2)	168	1.35	3.6	11.1	11.4	19
16777	Morrilton	Conway	Sandstone	(2)	155	2.10	3.5	11.4	17.7	9
17310	do	do	Feldspathic sandstone	(2)	156	3.18	3.9	10.3	{[3] 16.0 11.3}	11
16383	Springfield	do	do	(2)	164	.80	3.4	11.8	(2)	(2)
8921	Alma	Crawford	Sandstone	(2)	165	.79	2.3	17.4	18.3	10
5403	Van Buren	do	Feldspathic sandstone	(2)	162	.87	4.5	8.9	15.2	10
20891	Beryl	Faulkner	Sandstone	(2)	155	2.01	(2)	(2)	19.3	14
21057	do	do	do	(2)	156	2.27	2.3	17.4	17.3	13
2846	Conway	do	Ferruginous sandstone	(2)	159	1.63	4.9	8.2	17.1	9
12461	do	do	do	(2)	159	.18	2.6	15.4	17.3	25
19118	do	do	Sandstone	(2)	161	1.62	3.1	12.9	17.3	13
19119	do	do	do	(2)	159	3.91	6.0	6.7	13.3	9
19443	do	do	Feldspathic sandstone	(2)	156	2.50	4.3	9.3	13.7	9
20012	do	do	Sandstone	(2)	154	2.89	4.3	9.3	17.3	9
20168	do	do	do	(2)	160	1.36	2.2	18.2	18.0	{22 [3] 9}
20169	do	do	do	(2)	158	2.09	3.2	12.5	18.0	14
20170	do	do	do	(2)	163	.79	2.2	18.2	19.0	14
19082	Conway (near)	do	do	(2)	152	3.16	4.7	8.5	18.3	9

19752	do	do	do	(2)	157	2.47	4.0	10.0	16.7	11
20559	Conway (6 miles north of)	do	do	(2)	159	1.98	3.2	12.5	17.7	13
26770	Conway (north of)	do	Feldspathic sandstone	(2)	162	1.58	4.4	9.1	16.7	14
19116	Damascus	do	Sandstone	(2)	162	1.27	2.7	14.8	18.7	10
26771	Damascus (south of)	do	Feldspathic sandstone	(2)	155	2.62	9.4	4.3	9.7	3
18418	Mayflower (near)	do	Sandstone	(2)	160	1.35	2.8	14.3	17.3	19
18419	do	do	do	(2)	158	1.84	2.9	13.8	17.3	16
21119	Palarm	do	Feldspathic sandstone	(2)	162	1.49	2.7	14.8	17.3	11
19081	Preston	do	Sandstone	(2)	162	1.47	3.7	10.8	17.7	15
21079	Vilonia	do	do	(2)	152	4.02	4.5	8.9	14.3	7
21138	do	do	do	(2)	152	3.39	5.3	7.5	11.7	6
21174	do	do	do	(2)	159	2.12	2.6	15.4	19.0	11
19117	Wooster	do	do	(2)	154	2.45	3.2	12.5	15.3	17
19966	do	do	do	(2)	150	3.19	5.3	7.5	13.3	8
20352	do	do	do	(2)	156	2.12	3.7	10.8	18.3	13
20333	(1)	do	do	(2)	163	1.40	3.7	10.8	15.7	11
15386	(1)	Franklin	do	(2)	158	2.26	5.1	7.8	17.0	11
438	Hot Springs	Garland	Chert	(2)	162	.46	11.1	3.6	(2)	(2)
7629	Hope	Hempstead	Ferruginous sandstone	(2)	184	1.54	6.9	5.8	18.2	12
14425	Penters Bluff	Independence	Crystalline limestone	(2)	166	.60	10.4	3.8	8.3	3
14883	do	do	Chert	(2)	157	2.04	10.8	3.7	(2)	(2)
14885	do	do	Limestone	(2)	166	.67	5.4	7.4	15.3	7
14886	do	do	do	(2)	167	.69	10.5	3.8	7.3	3
11511	Pfeiffer	do	Marble	(2)	163	1.06	(2)	(2)	14.0	5
25128	Melbourne (near)	Izard	Argillaceous dolomite	(2)	165	3.54	6.6	6.1	(2)	(2)
9828	Lamar	Johnson	Feldspathic sandstone	21,980	159	1.97	(2)	(2)	18.7	13
14665	do	do	do	(2)	156	2.51	3.5	11.4	(2)	(2)
14959	do	do	do	(2)	(2)	(2)	(2)	(2)	18.0	14
15443	do	do	do	(2)	155	3.27	5.0	8.0	17.0	11
16510	do	do	do	(2)	156	2.57	3.8	10.5	(2)	13
17258	do	do	do	(2)	155	2.69	3.4	11.8	17.3	11
19056	do	do	do	(2)	157	2.37	3.2	12.5	16.3	13
20819	Black Rock	Lawrence	Dolomite	(2)	156	5.98	5.9	6.8	10.7	7
17902	Sloan	do	Limestone	(2)	171	1.24	4.9	8.2	13.0	6
17908	Williford	do	do	(2)	177	.89	3.7	10.8	14.7	16
13295	Whitecliffs	Little River	Argillaceous limestone	(2)	(2)	(2)	13.9	2.9	0.0	(2)
2298	Paris	Logan	Feldspathic sandstone	(2)	159	1.27	2.4	16.7	18.9	10
1353	Texarkana	Miller	Ferruginous sandstone	(2)	178	2.28	4.6	8.7	18.2	16
26614	Dover	Pope	Sandstone	(2)	156	3.01	3.6	11.1	17.3	12
26615	Dover (north of)	do	Feldspathic sandstone	(2)	162	1.38	4.0	10.0	18.7	6
26617	do	do	do	(2)	158	2.13	4.8	8.3	18.7	10
26630	do	do	Sandstone	(2)	159	1.48	(2)	(2)	19.3	12
26631	do	do	Feldspathic sandstone	(2)	158	2.26	3.4	11.8	18.3	10
26632	Dover (south of)	do	do	(2)	158	1.25	2.8	14.3	18.7	15
26746	Dover (2 miles south of)	do	Sandstone	(2)	155	2.36	4.0	10.0	18.7	10
28183	Dover (north of)	do	do	(2)	161	1.25	3.2	12.5	(2)	(2)
19632	Russellville (near)	do	Feldspathic sandstone	(2)	160	1.43	3.2	12.5	19.0	13
26616	Russellville (3 miles north of)	do	do	(2)	160	1.75	2.7	14.8	18.7	12
26674	Russellville (north of)	do	Sandstone	(2)	156	2.54	3.2	12.5	18.7	15
26687	Russellville (4½ miles north of)	do	do	(2)	161	1.61	3.4	11.8	18.7	18

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

ARKANSAS

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
26959	Russellville (near)	Pope	Sandstone	(2)	159	2.08	3.4	11.8	(2)	(3)
22761	Levy (1 mile west of)	Pulaski	do	(2)	165	.69	1.3	30.8	19.3	22
22762	do	do	do	(2)	159	2.42	2.1	19.0	18.0	14
2158	Little Rock	do	Feldspathic sandstone	(2)	175	.25	2.3	17.4	18.9	37
12993	do	do	Quartzite	(2)	165	.38	3.3	12.1	19.5	26
12994	do	do	do	(2)	164	.27	3.3	12.1	19.0	23
14279	do	do	Sodalite syenite	(2)	156	1.23	5.0	8.0	18.7	8
14293	do	do	Porphyritic syenite	(2)	163	.20	3.7	10.8	18.5	12
24924	do	do	Sandstone	(2)	162	.86	2.2	18.2	19.0	15
14280	Little Rock (16 miles west of)	do	do	(2)	157	1.76	6.4	6.2	16.3	10
21140	Little Rock (near)	do	Ferruginous sandstone	(2)	162	2.00	2.4	16.7	17.7	23
21141	do	do	do	(2)	161	2.00	2.8	14.3	16.3	14
25359	do	do	Leucite syenite	(2)	157	.95	6.2	6.5	18.7	7
25360	do	do	Syenite	(2)	159	.80	(2)	(2)	18.0	18
25361	do	do	Hornblende syenite	(2)	164	.20	(2)	(2)	18.7	13
21815	Marche (near)	do	Sandstone	27,950	157	2.08	2.7	14.8	16.3	7
12320	(1)	do	Feldspathic sandstone	(2)	162	.96	2.5	16.0	18.9	32
742	Fort Smith	Sebastian	Sandstone	(2)	156	1.39	4.0	10.0	(2)	(2)
743	do	do	do	(2)	162	1.28	3.7	10.8	(2)	(2)
9838	do	do	do	(2)	150	5.00	6.5	6.2	15.3	6
10486	Gillham	Sevier	Feldspathic quartzite	(2)	164	.42	2.3	17.4	19.0	32
16657	Williford	Sharp	Dolomite	(2)	169	2.40	3.6	11.1	(2)	(2)
17908	do	do	Limestone	(2)	177	.89	3.7	10.8	14.7	16
28196	Bee Branch (near)	Van Buren	Siliceous slate	(2)	167	.68	3.8	10.5	15.3	13
16488	Fayetteville	Washington	Weathered chert	(2)	(2)	(2)	2.2	18.2	(2)	(2)
20923	do	do	Argillaceous limestone	(2)	168	1.65	5.4	7.4	15.3	7
6331	Bald Knob	White	Sandstone	19,860	159	2.05	2.2	18.2	17.9	18
15466	Plainview	Yell	Feldspathic sandstone	(2)	152	4.01	4.7	8.5	15.3	6
6954	(1)	do	Quartzite	(2)	165	.54	2.7	14.8	19.0	22

CALIFORNIA

5148	Albany	Alameda	Feldspathic sandstone	(2)	168	1.04	5.0	8.0	17.0	11
9369	Dumbarton	do	Ferruginous chert	(2)	184	0.14	15.9	2.5	(2)	(2)
9370	do	do	Serpentine	(2)	147	2.73	16.4	2.4	14.0	(2)
9371	do	do	Chert conglomerate	(2)	165	.05	7.1	5.6	(2)	(2)

8891	Newark	do	Serpentine	(2)	156	4.04	11.0	3.6	12.3	6
8892	do	do	Chalcedonic quartz	(2)	165	.35	8.5	4.7	(2)	(2)
4372	Oakland	do	Feldspathic sandstone	(2)	168	.48	4.7	8.5	16.5	5
4373	do	do	do	(2)	168	.51	3.6	11.1	18.6	21
4374	do	do	do	(2)	168	.44	3.0	13.3	18.8	24
4375	do	do	Quartz breccia	(2)	162	1.80	10.5	3.8	19.4	9
4376	do	do	Altered basalt	(2)	178	1.43	5.3	7.5	16.8	15
4377	do	do	Feldspathic sandstone	(2)	168	.41	3.5	11.4	17.8	12
5150	do	do	Altered rhyolite	(2)	168	.50	2.7	14.8	17.9	14
5151	do	do	Feldspathic sandstone	(2)	168	.48	2.2	18.2	18.7	14
1227	Oakland (near)	do	Altered rhyolite	(2)	165	.36	1.7	23.5	18.7	33
2636	Milton	Calaveras	Altered andesite	(2)	178	.11	1.5	26.7	18.8	44
2031	Milton (5 miles east of)	do	Rhyolite	(2)	168	.19	2.1	19.0	19.5	20
2032	Milton (3 miles east of)	do	Altered basalt	(2)	181	.58	1.5	26.7	19.2	19
2350	Valley Springs (near)	do	Quartzite	(2)	178	.41	3.4	11.8	19.5	15
2351	do	do	Hornblende-chlorite schist	(2)	178	.84	2.8	14.3	18.9	17
5147	San Pablo	Contra Costa	Feldspathic sandstone	(2)	168	.55	2.6	15.4	18.2	16
2925	Red Hill	Fresno	Epidosite	(2)	187	.22	2.1	19.0	17.6	11
7605	Bakersfield	Kern	Diorite	(2)	184	.08	3.7	10.8	19.3	36
2436	Claremont	Los Angeles	Granite	(2)	162	.57	(2)	(2)	18.1	4
2437	Glendale	do	Biotite gneiss	(2)	172	.17	3.2	12.5	18.7	11
2438	do	do	Altered granite	(2)	165	.99	4.8	8.3	18.5	20
2293	Hollywood	do	Diorite	(2)	172	.40	4.8	8.3	18.4	9
2294	do	do	Andesite	(2)	172	.59	(2)	(2)	18.7	17
2593	Hollywood (near)	do	Granite breccia	(2)	162	1.99	24.6	1.6	(2)	(2)
2597	Lancaster (near)	do	Altered trachyte	(2)	178	.53	1.7	23.5	17.8	34
578	Los Angeles	do	Granite	(2)	162	.91	14.8	2.7	(2)	(2)
2433	do	do	Tuffaceous limestone	(2)	162	4.65	3.7	10.8	17.2	10
2983	do	do	Altered andesite	(2)	156	1.05	4.0	10.0	17.3	16
3166	do	do	Biotite gneiss	(2)	172	.34	3.7	10.8	18.3	10
3346	do	do	Hornblende andesite	(2)	162	1 07	3.7	10.8	16.9	17
2439	Pacoima (½ mile east of)	do	Andesite	(2)	172	.83	2.2	18.2	17.7	29
2594	San Pedro (near)	do	Altered andesite	(2)	156	.21	4.8	8.3	(2)	(2)
2595	do	do	do	(2)	137	6.59	8.1	4.9	12.9	9
2596	do	do	Quartzite schist	(2)	165	.19	4.9	8.2	(2)	(2)
2289	Spadra	do	Rhyolite	(2)	147	1.32	5.6	7.1	18.0	10
2290	do	do	Andesite	(2)	178	.13	2.3	17.4	18.3	12
2946	Spadra (near)	do	Weathered trachytic rhyolite.	(2)	140	5.29	4.4	9.1	16.2	17
2947	do	do	Trachytic rhyolite	(2)	153	1.49	5.1	7.8	18.7	19
2334	(1)	do	Augite andesite	(2)	165	2.43	3.4	11.8	16.6	18
2335	(1)	do	Limestone	(2)	162	1.44	5.8	6.9	14.2	7
2352	(1)	do	Tremolite schist	(2)	181	.33	3.0	13.3	(2)	(2)
2353	(1)	do	Rhyolite	(2)	168	.40	2.6	15.4	19.7	21
2354	(1)	do	Quartz syenite	(2)	165	.40	2.3	17.4	19.2	21
2355	(1)	do	Syenite gneiss	(2)	168	.52	2.4	16.7	18.3	12
2356	(1)	do	Biotite gneiss	(2)	165	1.11	(2)	(2)	18.2	9
3164	(1)	do	Basalt	(2)	168	1.69	4.0	10.0	18.6	18
3165	(1)	do	Altered rhyolite	(2)	134	7.15	6.8	5.9	16.5	9
3261	(1)	do	Hornblende granite	(2)	165	.42	2.5	16.0	19.0	22
3262	(1)	do	Altered andesite	(2)	159	1.67	2.7	14.8	18.2	15

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

CALIFORNIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
3263	(1)	Los Angeles	Altered andesite	(2)	147	4.71	4.8	8.3	18.2	10
3264	(1)	do	do	(2)	159	2.17	(2)	(2)	17.5	14
3871	(1)	do	Feldspar basalt	(2)	165	.75	2.8	14.3	18.3	13
2657	Jasper	Mariposa	Feldspathic quartzite	(2)	175	.20	2.0	20.0	18.7	16
2658	do	do	Weathered feldspathic quartzite.	(2)	172	.25	2.4	16.7	18.7	8
27450	Yosemite National Park	do	Diorite	(2)	178	.59	3.4	11.8	17.3	12
27451	do	do	Granodiorite	(2)	165	.85	7.5	5.3	18.7	6
27452	do	do	Biotite granite	(2)	169	.46	5.6	7.1	16.7	4
27461	do	do	Diorite	(2)	182	.65	2.6	15.4	18.7	17
28212	Napa	Napa	Basalt	(2)	177	.41	2.3	17.4	18.0	22
2075	Corona	Riverside	Rhyolite	(2)	165	.62	2.2	18.2	18.2	20
2076	do	do	Andesite	(2)	172	1.10	3.5	11.4	17.7	19
8643	Corona (near)	do	Altered rhyolite	(2)	168	.29	1.8	22.2	19.7	24
2377	Riverside	do	Diorite	(2)	187	.19	1.7	23.5	18.7	34
3135	(1)	do	Hornblende granite	(2)	162	.87	2.5	16.0	18.8	16
3544	(1)	do	Diorite	(2)	175	.18	7.3	5.5	17.1	5
3545	(1)	do	Dolomitic marble	(2)	165	.26	6.3	6.3	14.2	5
3546	(1)	do	Pyroxene quartzite	(2)	196	.31	3.7	10.8	18.4	15
8300	Fair Oaks	Sacramento	Altered basalt	(2)	187	.17	1.7	23.5	19.5	37
2420	Folsom City	do	Altered andesite	(2)	175	.29	1.4	28.6	19.3	36
2434	Barstow	San Bernardino	Marble	(2)	168	.17	4.4	9.1	14.4	4
2288	Colton	do	do	(2)	172	.22	5.8	6.9	14.5	3
11527	San Francisco	San Francisco	do	(2)	176	.35	(2)	(2)	12.0	6
7426	San Luis Obispo (near)	San Luis Obispo	Feldspathic sandstone	(2)	165	2.62	4.7	8.5	15.3	9
3085	Rockaway Beach	San Mateo	Limestone	(2)	168	.44	4.5	8.9	(2)	(2)
5152	do	do	Calcareous chert	(2)	165	.25	4.6	8.7	19.0	11
4143	Visitacion	do	Feldspathic sandstone	(2)	162	1.54	2.5	16.0	14.9	7
2128	Hope Ranch	Santa Barbara	Limestone	(2)	(2)	(2)	3.3	12.1	15 9	12
2130	Lompoc	do	Altered chert	(2)	(2)	(2)	(2)	(2)	19.7	5
2133	Lompoc (near)	do	Chert	(2)	(2)	(2)	10.9	3.7	(2)	(2)
1703	Santa Barbara	do	Feldspathic sandstone	(2)	156	2.52	7.0	5.7	10.3	5
8098	Coyote	Santa Clara	Siliceous limestone	(2)	168	1.27	2.3	17.4	16.7	8
1025	Palo Alto	do	Feldspar basalt	(2)	168	1.18	3.1	12.9	18.6	16
1026	do	do	Banded chert	(2)	162	.72	23.5	1.7	(2)	(2)
2010	do	do	Altered trachyte	(2)	175	.66	3.2	12.5	17.7	11
11373	San Jose	do	Feldspathic quartzite	(2)	172	.32	1.8	22.2	18.7	18
1004	Saratoga	do	Feldspathic sandstone	(2)	168	.40	4.9	8.2	17.1	19
1750	Montague	Siskiyou	Andesite	(2)	150	3.79	6.8	5.9	16.3	10

5149	Benicia	Solano	Olivine basalt	(2)	172	1.35	3.1	12.9	18.3	30
5153	do	do	do	(2)	178	1.29	2.0	20.0	18.3	21
1186	Cordelia	do	do	(2)	175	.93	2.3	17.4	18.8	30
1187	Cordelia (near)	do	Diorite	(2)	187	.35	2.1	19.0	(2)	(2)
2758	do	do	Olivine basalt	(2)	175	.38	1.7	23.5	18.9	31
2759	do	do	do	(2)	172	1.72	3.2	12.5	18.5	19
6576	Petaluma	Sonoma	Basalt	(2)	181	.89	2.0	20.0	18.2	26
5079	Petaluma (near)	do	Andesite tuff	(2)	115	12.50	17.4	2.3	5.0	5
1705	Camarillo	Ventura	Andesite	(2)	143	5.18	6.1	6.6	7.9	7
2132	do	do	Altered andesite	(2)	(2)	(2)	6.1	6.6	13.4	9
2573	Santa Paula (near)	do	Feldspathic sandstone	(2)	162	1.69	2.0	20.0	16.7	17
2540	Ventura	do	Volcanic breccia	(2)	137	8.79	8.8	4.5	12.2	3
2572	Ventura (near)	do	Limestone	(2)	168	.47	2.1	19.0	16.0	10
2637	do	do	Andesite	(2)	172	1.27	2.8	14.3	17.8	21
1286	(1)	(1)	Garnetiferous hornblende schist.	(2)	187	1.19	2.4	16.7	16.4	11
2291	(1)	(1)	Argillaceous limestone	(2)	156	2.04	4.7	8.5	10.4	8
2292	(1)	(1)	do	(2)	156	5.04	4.4	9.1	10.4	11

COLORADO

3113	Boulder	Boulder	Sandstone	(2)	146	2.11	5.3	7.5	16.5	7
3114	do	do	Augite andesite	(2)	175	.52	3.0	13.3	18.3	18
15782	do	do	Sandstone	10,625	151	3.92	8.6	4.7	16.7	7
15783	do	do	do	19,110	150	3.53	6.7	6.0	16.7	7
15784	do	do	do	17,510	148	2.89	5.1	7.8	16.7	8
3116	Boulder (near)	do	Altered andesite	(2)	156	2.73	2.6	15.4	18.3	20
13892	do	do	Feldspar basalt	(2)	174	.56	2.9	13.8	18.8	18
18684	Longmont	do	Limestone	(2)	168	.45	4.6	8.7	13.3	6
9822	Lyons	do	Sandstone	(2)	156	1.73	3.4	11.8	18.3	11
9821	Lyons (near)	do	Argillaceous limestone	(2)	162	2.98	4.9	8.2	15.3	7
9823	do	do	Sandstone	(2)	156	1.37	2.9	13.8	16.0	14
27526	(1)	do	Baked shale	(2)	136	7.18	9.2	4.3	(2)	(2)
3294	(1)	do	Altered granite	(2)	165	.24	2.4	16.7	18.8	17
2196	Silver Cliff	Custer	Rhyolite breccia	(2)	134	5.53	7.8	5.1	(2)	(2)
2934	do	do	do	(2)	128	6.11	5.6	7.1	15.5	7
2458	Colorado Springs (near)	El Paso	Trachyte	(2)	134	4.21	3.2	12.5	19.1	21
1372	Portland	Fremont	Biotite granite	(2)	162	.42	8.2	4.9	(2)	(2)
1374	do	do	Limestone	(2)	162	2.60	4.5	8.9	(2)	(2)
399	Capitol City (near)	Hinsdale	Brecciated felsite	(2)	156	3.13	3.4	11.8	(2)	(2)
396	Lake City (near)	do	Rhyolite breccia	(2)	156	3.21	5.7	7.0	(2)	(2)
407	do	do	Andesite	(2)	162	2.83	3.5	11.4	(2)	(2)
408	do	do	Augite andesite	(2)	162	2.00	6.4	6.2	(2)	(2)
409	do	do	Diorite	(2)	168	1.03	3.2	12.5	(2)	(2)
397	(1)	do	Porphyritic granite	(2)	162	.44	8.7	4.6	(2)	(2)
398	(1)	do	Rhyolite tuff	(2)	175	.15	8.0	5.0	(2)	(2)
406	(1)	do	do	(2)	156	2.90	10.3	3.9	(2)	(2)

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

COLORADO—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
11168	Denver (near)	Jefferson	Augite andesite	(2)	169	1.27	2.7	14.8	15.3	17
3293	Golden	do	Basalt	(2)	172	1.43	2.2	18.2	15.9	15
23831	do	do	Nepheline tephrite	(2)	171	.00	(2)	(2)	17.3	15
4724	Fort Collins (near)	Larimer	Limestone	(2)	159	3.24	6.5	6.2	(2)	(2)
1602	La Junta	Otero	do	(2)	153	6.04	7.3	5.5	3.0	7
28660	Victor	Teller	Rhyolite	(2)	(2)	(2)	2.6	15.4	(2)	(2)

CONNECTICUT

3177	Bridgeport	Fairfield	Feldspathic quartzite	(2)	165	0.38	2.2	18.2	18.5	12
3178	do	do	Granite gneiss	(2)	165	.37	2.4	16.7	18.5	10
3223	do	do	Diabase	(2)	190	.17	3.3	12.1	18.3	30
6111	do	do	Granite gneiss	(2)	165	.25	2.5	16.0	18.8	9
6112	do	do	Biotite gneiss	(2)	162	1.02	3.0	13.3	18.0	11
2798	Danbury	do	Marble	(2)	172	.39	5.7	7.0	15.2	6
3477	do	do	Diabase	(2)	184	.27	1.1	36.4	(2)	(2)
2381	Canton	Hartford	Gabbroitic diabase	(2)	184	1.06	(2)	(2)	18.0	13
7309	Hartford	do	Altered diabase	(2)	178	1.89	2.1	19.0	17.2	12
26829	Newington	do	Diabase	(2)	181	.25	2.4	16.7	18.7	17
4013	Plainville	do	Basalt	(2)	184	.30	2.1	19.0	18.1	22
9944	do	do	Diabase	(2)	184	1.14	2.0	20.0	19.0	23
26830	do	do	do	(2)	185	.18	3.2	12.5	18.7	26
28619	do	do	Basalt	(2)	184	.15	2.4	16.7	18.0	20
233	Rockyhill	do	Diabase	(2)	(2)	(2)	2.4	16.7	(2)	(2)
2250	do	do	Altered diabase	(2)	187	.55	1.7	23.5	18.2	24
3320	do	do	do	(2)	184	1.35	1.8	22.2	16.8	22
12114 A	do	do	do	33,220	182	.34	2.7	14.8	17.3	21
5977	Suffield	do	do	(2)	187	.27	1.9	21.1	18.3	33
14965	(1)	do	do	(2)	184	.25	3.0	13.3	18.0	20
14970	(1)	do	do	(2)	185	.24	2.7	14.8	17.3	22
2873	New Milford	Litchfield	Hornblende schist	(2)	187	.30	3.5	11.4	18.4	6
6605	Sharon	do	Siliceous dolomite	(2)	178	.56	5.5	7.3	11.3	7
5815	Torrington	do	Granite gneiss	(2)	165	.35	(2)	(2)	18.3	11
6750	do	do	Amphibolite	(2)	196	.16	2.3	17.4	16.9	10
6995	do	do	Hornblende schist	(2)	198	.12	3.0	13.3	16.5	8
26882	Washington Depot	do	Amphibolite	(2)	190	.30	(2)	(2)	18.7	15

25389 A	(1)	do	Biotite gneiss	(2)	166	.76	3.7	10.8	18.0	9
25389 B	(1)	do	do	(2)	183	.47	2.6	15.4	18.3	11
25389 C	(1)	do	Quartzite	(2)	164	.29	3.6	11.1	19.3	13
25390 A	(1)	do	Biotite gneiss	(2)	163	.45	2.5	16.0	18.7	13
25390 B	(1)	do	Hornblende biotite gneiss	(2)	167	.48	4.0	10.0	17.3	10
26625	Cromwell	Middlesex	Altered diabase	(2)	180	1.56	3.8	10.5	17.3	9
2241	Middlefield	do	Diabase	(2)	184	1.08	1.7	23.5	16.5	.8
18710	do	do	do	(2)	184	.26	2.1	19.0	17.7	20
28620	do	do	do	(2)	187	.24	3.1	12.9	18.0	25
23056	Middletown	do	Biotite gneiss	(2)	168	.57	3.8	10.5	18.7	9
24465	do	do	do	(2)	168	.50	4.2	9.5	19.3	9
354	Ansonia	New Haven	Basalt	(2)	187	.59	2.1	19.0	(2)	(2)
1323	do	do	Biotite gneiss	(2)	168	.40	3.1	12.9	17.6	20
1324	do	do	Diabase	(2)	190	.16	1.8	22.2	17.9	32
215	Branford	do	do	(2)	(2)	(2)	2.2	18.2	(2)	(2)
349	do	do	do	(2)	175	.77	3.5	11.4	(2)	(2)
1204	do	do	Altered diabase	(2)	172	1.03	2.4	16.7	17.6	15
5002	do	do	do	(2)	175	.31	3.4	11.8	16.6	8
26880	do	do	Diabase	(2)	185	.06	2.8	14.3	18.7	22
11151	East Haven	do	Altered basalt	(2)	169	.63	3.7	10.8	17.3	10
19732	do	do	do	(2)	176	.19	(2)	(2)	16.7	10
21227	Hamden	do	Diabase	(2)	184	.09	2.1	19.0	17.7	14
11	Meriden	do	Augite diabase	(2)	178	(2)	3.2	12.5	(2)	(2)
71	do	do	Diabase	(2)	(2)	(2)	2.6	15.4	(2)	(2)
467	do	do	do	(2)	181	.65	2.4	16.7	(2)	(2)
2249	do	do	Altered diabase	(2)	181	.43	1.8	22.2	17.3	17
24893	do	do	do	(2)	185	.09	2.8	14.3	17.3	20
18226	Milford	do	Hornblende schist	(2)	189	.30	4.0	10.0	16.7	11
26881	Mount Carmel	do	Diabase	(2)	187	.24	2.6	15.4	18.7	21
12018	North Branford	do	do	(2)	185	.91	3.8	10.5	15.3	10
12115	do	do	do	(2)	184	.27	4.1	9.8	16.0	12
24443	do	do	Olivine diabase	49,400	187	.15	1.6	25.0	18.7	27
28618	do	do	Diabase	(2)	186	.06	2.6	15.4	18.0	23
12235	Reeds Gap	do	do	10,817	182	.49	2.8	14.3	17.3	11
19725	Woodbridge	do	do	30,475	184	.39	2.9	13.8	17.7	14
5758	(1)	do	Altered diabase	(2)	184	2.17	2.0	20.0	18.6	23
8178	(1)	do	Diabase	(2)	184	1.24	2.1	19.0	17.5	19
2795	Ledyard	New London	Hornblende schist	(2)	184	.19	3.4	11.8	18.0	18
11067	Waterford	do	Granite	21,840	162	.74	(2)	(2)	18.7	13
11068	do	do	Biotite granite	23,850	162	.78	(2)	(2)	18.7	8
11069	do	do	do	22,170	164	.71	(2)	(2)	18.7	14
13843	do	do	do	(2)	(2)	(2)	3.3	12.1	18.7	11
940	Rockville	Tolland	Gneiss	(2)	168	.25	2.2	18.2	17.7	10
953	do	do	Biotite gneiss	(2)	162	.68	4.7	8.5	16.6	(2)
1042	do	do	Diabase	(2)	187	.23	2.0	20.0	(2)	(2)
1061	do	do	do	(2)	187	.18	1.9	21.1	18.7	43
1104	do	do	Gneiss	(2)	190	.47	3.4	11.8	17.6	5
8177	do	do	Hornblende schist	(2)	162	.67	5.2	7.7	19.0	7
9791	Oneco	Windham	Biotite granite	16,635	(2)	(2)	(2)	(2)	18.3	8
11098	do	do	do	23,290	164	.55	(2)	(2)	18.7	6
11099	do	do	Gneissoid granite	20,200	163	.67	(2)	(2)	18.7	6

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

CONNECTICUT—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
13865	Oneco	Windham	Granite	(2)	(2)	(2)	4.5	8.9	18.0	8
206	Plainfield	do	Diabase	(2)	(2)	1.8	22.2	(2)	(2)	
1615	Willimantic (near)	do	Granite	(2)	162	1.03	11.2	3.6	15.8	(2)
1616	do	do	Biotite granite	(2)	165	1.12	(2)	(2)	13.6	6
11148	(1)	do	Gneissoid granite	20,825	163	.44	4.6	8.7	18.7	7

DELAWARE

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
3490	Ashland	New Castle	Hornblende schist	(2)	187	0.19	4.3	9.3	17.2	9
12511	do	do	Biotite gneiss	(2)	169	1.13	7.0	5.7	17.3	(2)
12555	Elsmere	do	do	(2)	167	.29	3.1	12.9	18.7	14
13893	Elsmere Junction	do	Plagioclase gneiss	(2)	168	.20	3.6	11.1	18.7	9
12839	Faulkland	do	Hypersthene gneiss	(2)	184	.04	4.0	10.0	18.0	14
13838	do	do	Hornblende gneiss	(2)	181	.31	3.7	10.8	18.7	12
858	Greenbank	do	Quartzite	(2)	187	.08	2.7	14.8	18.4	30
862	do	do	do	(2)	168	.10	2.6	15.4	(2)	(2)
3533	Hockessin	do	Biotite gneiss	(2)	172	.54	12.8	3.1	17.3	7
14114	do	do	Hornblende gneiss	(2)	194	.16	3.1	12.9	17.2	11
3534	Marshallton	do	do	(2)	190	.02	5.6	7.1	18.0	12
3535	do	do	Hornblende schist	(2)	190	.10	5.2	7.7	17.8	11
2012	Mill Creek Hundred (Township)	do	Biotite schist	(2)	168	.83	6.6	6.1	(2)	(2)
8736	do	do	Biotite gneiss	(2)	175	.24	4.5	8.9	18.2	7
12513	Mount Cuba	do	Hornblende gneiss	(2)	181	.90	4.8	8.3	(2)	(2)
5875	Newark	do	Hornblende schist	(2)	187	.29	2.6	15.4	17.7	11
8919	Newark (5 miles northwest of)	do	Biotite gneiss	(2)	172	.57	5.0	8.0	15.9	5
864	Wilmington	do	Pyroxene quartzite	(2)	190	.12	2.2	18.2	(2)	(2)
1363	do	do	Amphibolite	(2)	172	.13	1.0	40.0	18.6	18
1364	do	do	Pyroxene quartzite	(2)	181	.10	2.1	19.0	18.5	24
1365	do	do	Gabbro	(2)	187	.16	1.6	25.0	18.2	17
11722	do	do	Feldspathic quartzite	21,060	(2)	(2)	(2)	(2)	18.7	10
15367	do	do	Pyroxene quartzite	(2)	175	.69	3.3	12.1	18.7	12
15401	do	do	do	(2)	177	.18	3.3	12.1	18.7	13
863	Wooddale	do	Hornblende schist	(2)	196	.12	3.0	13.3	16.5	18
865	do	do	Granite	(2)	165	.15	3.4	11.8	(2)	(2)
2029	do	do	Biotite schist	(2)	175	.39	3.3	12.1	16.8	10
2515	do	do	Biotite granite	(2)	175	.37	3.9	10.3	17.7	6

2574	do	do	Hornblende schist	(2)	196	.23	2.8	14.3	17.4	19
4032	do	do	Biotite granite	(2)	168	.37	5.1	7.8	18.3	8
4033	do	do	Biotite schist	(2)	175	.19	4.5	8.9	17.8	10
12512	Yorklyn	do	Biotite gneiss	(2)	170	.77	5.2	7.7	10.3	(2)
13033	do	do	Hornblende gneiss	(2)	173	.23	3.2	12.5	18.3	10
2347	(1)	do	Limestone	(2)	125	9.01	(2)	(2)	16.2	4
2348	(1)	do	do	(2)	125	8.86	(2)	(2)	17.6	6
3452	(1)	do	Serpentine	(2)	147	5.52	15.1	2.6	0.0	3
3998	(1)	do	Hypersthene gabbro	(2)	187	.17	3.7	10.8	18.0	9
4615	(1)	do	Biotite schist	(2)	175	.43	5.4	7.4	17.2	11
4921	(1)	do	Biotite gneiss	(2)	175	.27	4.4	9.1	17.0	7
5711	(1)	do	Feldspathic quartzite	(2)	168	.27	2.5	16.0	18.7	21
5712	(1)	do	Dolomitic marble	(2)	178	.35	4.2	9.5	14.3	6
5713	(1)	do	Biotite gneiss	(2)	172	.19	4.8	8.3	18.0	8
14025	(1)	do	Hornblende schist	(2)	191	.25	3.6	11.1	17.7	8
			DISTRICT OF COLUMBIA							
1625	Washington		Mica schist and biotite gneiss.	(2)	168	1.09	5.8	6.9	6.8	6
1648	do		Quartzite	(2)	165	.35	3.6	11.1	(2)	(2)
3462	do		Mica schist	(2)	175	.12	4.5	8.9	17.0	8
4668	do		Biotite gneiss	(2)	168	.30	7.9	5.1	16.3	5
6437	do		Mica gneiss	(2)	(2)	(2)	(2)	(2)	17.7	10
8158	do		Granite gneiss	(2)	175	.28	3.0	13.3	18.8	5
19620	do		Mica gneiss	(2)	173	.38	4.2	9.5	17.3	8
20320	do		do	(2)	176	.34	6.0	6.7	17.7	7
			FLORIDA							
1129	Gainesville	Alachua	Chert	(2)	(2)	(2)	13.9	2.9	(2)	(2)
3018	Raleigh	do	do	(2)	153	1.66	7.1	5.6	(2)	(2)
10192	Titusville	Brevard	Shell limestone	(2)	155	4.03	7.5	5.3	14.9	2
21892	Crystal River	Citrus	Limestone	(2)	146	4.56	18.5	2.2	9.7	6
24667	do	do	do	(2)	146	4.43	10.8	3.7	18.7	4
1169	Floral City	do	Siliceous limestone	(2)	153	6.93	17.6	2.3	(2)	(2)
13788	do	do	Weathered chert	(2)	(2)	(2)	17.9	2.2	(2)	(2)
6858	(1)	do	Limestone	(2)	(2)	(2)	(2)	(2)	0.0	3
19248	Ojus	Dade	Shell limestone	(2)	(2)	(2)	21.0	1.9	(2)	(2)
19249	do	do	do	(2)	(2)	(2)	16.1	2.5	(2)	(2)
20060	do	do	Limestone	(2)	(2)	(2)	17.8	2.2	(2)	(2)
28648	Brooksville	Hernando	do	(2)	(2)	(2)	11.4	3.5	(2)	4
28649	do	do	do	(2)	(2)	(2)	8.8	4.5	(2)	7
29527	do	do	Dolomitic limestone	(2)	164	1.27	4.7	8.5	12.0	6
24606	do	do	Limestone	(2)	158	1.76	8.1	4.9	12.0	4
26282	Brooksville (west of)	do	do	(2)	(2)	(2)	(2)	(2)	15.3	6

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

FLORIDA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
26619	Brooksville (5 miles east of)	Hernando	Limestone	(2)	161	1.51	7.0	5.7	11.3	4
26805	do	do	do	(2)	166	.86	6.2	6.5	16.0	6
702	Tampa	Hillsborough	Dolomite	(2)	162	4.80	18.6	2.2	(2)	(2)
6963	do	do	Limestone	(2)	156	.21	9.4	4.3	5.6	3
5974	Fort Myers	Lee	Shell limestone	(2)	153	3.17	13.1	3.1	12.3	6
9739	Montbrook	Levy	Chert	(2)	156	2.02	3.2	12.5	(2)	(2)
9740	do	do	do	(2)	156	2.74	3.5	11.4	(2)	(2)
13568	do	do	do	(2)	148	4.22	15.6	2.6	17.3	16
28321	Morriston	do	Limestone	(2)	(2)	(2)	(2)	(2)	14.7	22
28443	Bradenton	Manatee	Argillaceous dolomite	(2)	151	6.15	7.2	5.6	10.7	4
28642	Kendrick	Marion	Limestone	(2)	(2)	(2)	33.0	1.2	(2)	3
28643	do	do	do	(2)	(2)	(2)	40.6	1.0	(2)	2
28644	do	do	do	(2)	(2)	(2)	43.8	0.9	(2)	3
28645	do	do	do	(2)	(2)	(2)	41.6	1.0	(2)	3
8387	Ocala	do	Weathered chert	(2)	143	.30	10.9	3.7	18.8	13
28646	Standard	do	Chert	(2)	(2)	(2)	4.0	10.0	(2)	(2)
28647	do	do	do	(2)	(2)	(2)	5.0	8.0	(2)	19
10430	Boynton (near)	Palm Beach	Shell limestone	(2)	(2)	(2)	37.2	1.1	(2)	(2)
10411	Delray (3½ miles west of)	do	do	(2)	(2)	(2)	50.9	0.8	(2)	(2)
10431	Jupiter (15 miles west of)	do	Siliceous limestone	(2)	(2)	(2)	12.5	3.2	14.7	5
7218	Live Oak	Suwannee	Limestone	(2)	162	1.06	(2)	(2)	12.1	3
18149	do	do	do	(2)	145	4.57	15.6	2.6	9.0	4
13301	Chipley	Washington	Limestone	(2)	156	2.37	12.3	3.3	14.4	5

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10399	Cartersville	Bartow	Ferruginous sandstone	(2)	145	8.74	22.0	1.8	(2)	(2)
10398	Cartersville (3 miles east of)	do	Quartz schist	(2)	159	.71	5.0	8.0	19.3	11
10400	Cass Station (2 miles northeast of)	do	Sandstone	(2)	152	2.86	(2)	(2)	18.7	12
417	Ladds	do	Dolomite	(2)	181	.76	8.2	4.9	(2)	(2)
8692	do	do	do	(2)	178	.18	(2)	(2)	17.5	14
12933	do	do	do	(2)	174	1.02	3.9	10.3	16.0	8
12956	do	do	do	(2)	175	.41	3.3	12.1	17.7	12
12957	do	do	do	(2)	173	.35	3.9	10.3	18.0	6
8118	Holton	Bibb	Biotite gneiss	(2)	168	.26	5.1	7.8	18.0	4
9338A	Holton (2 miles north of)	do	do	(2)	(2)	(2)	(2)	(2)	16.2	4
9338B	do	do	do	(2)	165	2.00	5.7	7.0	19.3	4

13845	Macon	do	do	(2)	168	1.20	5.9	6.8	18.0	8
9577	Union City	Campbell	Granite	(2)	165	.28	3.0	13.3	18.5	6
10657	Bowdon (1 mile north of)	Carroll	Amphibolite	(2)	187	1.20	19.0	2.1	10.5	4
10645	Carrollton (4 miles north of)	do	Biotite gneiss	(2)	172	.35	4.7	8.5	17.7	7
10646	do	do	Granite gneiss	(2)	165	.62	4.5	8.9	18.7	5
10647	Carrollton (2 miles southwest of)	do	do	(2)	169	.51	4.6	8.7	18.5	6
10648	do	do	do	(2)	168	.53	4.8	8.3	18.7	4
10649	Carrollton (4 miles southeast of)	do	Biotite schist	(2)	168	.51	5.7	7.0	18.9	8
10654	Carrollton (7 miles northeast of)	do	Biotite gneiss	(2)	166	.67	(2)	(2)	18.0	10
10651	Mabry	do	Epidote-hornblende schist	(2)	192	1.12	5.5	7.3	17.7	9
10653	Roopville	do	Mica schist	(2)	168	.75	(2)	(2)	16.7	5
10655	Temple (4 miles east of)	do	Biotite gneiss	(2)	169	.56	7.7	5.2	17.0	5
424	Chickamauga Park	Catoosa	Limestone	(2)	168	.13	4.9	8.2	(2)	(2)
8721	Graysville	do	Siliceous limestone	(2)	168	.32	5.5	7.3	14.7	7
8708	Shackelton	Chattooga	Limestone	(2)	168	.27	4.5	8.9	15.7	9
9329	Ball Ground	Cherokee	Marble	(2)	168	.28	7.7	5.2	11.2	2
11512	do	do	do	(2)	169	.29	12.4	3.2	8.0	3
583	Canton	do	Eclogite	(2)	228	.14	2.9	13.8	(2)	(2)
11529	Hollysprings	do	Serpentine marble	21,850	178	.40	(2)	(2)	12.6	
10417	Athens	Clarke	Biotite granite	(2)	165	.68	6.4	6.2	18.7	6
10418	do	do	Granite gneiss	(2)	169	.76	7.5	5.3	17.7	6
10420	do	do	Biotite granite	(2)	167	.47	5.9	6.8	18.7	4
10421	Athens (south of)	do	Biotite gneiss	(2)	167	.65	(2)	(2)	18.7	6
10422	Athens (4 miles west of)	do	Biotite granite	(2)	163	1.56	(2)	(2)	15.4	4
10423	Athens (4 miles northeast of)	do	do	(2)	163	.58	4.4	9.1	17.8	9
10387	Acworth (½ mile south of)	Cobb	Biotite gneiss	(2)	175	.68	8.6	4.7	16.7	5
10388	Acworth (4 miles south of)	do	do	(2)	174	.59	10.1	4.0	16.7	5
10389	Austell (¾ mile west of)	do	Granite gneiss	12,890	163	.56	7.4	5.4	18.7	5
10393	Blackwell Station (1 mile north of)	do	Hornblende gneiss	17,350	184	.42	4.9	8.2	17.3	7
10378	Gilmore (near)	do	Biotite gneiss	(2)	165	.26	5.1	7.8	18.6	8
10395	Kennesaw Station (4 miles southwest of)	do	Amphibolite	(2)	191	.46	5.3	7.5	15.3	5
10380	Lost Mountain (near)	do	Hornblende gneiss	(2)	188	.93	(2)	(2)	13.3	4
10377	Marietta (1½ miles south of)	do	Biotite gneiss	(2)	170	.67	6.5	6.2	17.3	6
10381	Marietta (1 mile northwest of)	do	Feldspathic gneiss	18,500	167	.73	(2)	(2)	18.7	6
10382	Marietta (4 miles northwest of)	do	Biotite gneiss	14,000	169	.50	5.6	7.1	17.3	6
10394	Marietta (2 miles northwest of)	do	Hornblende gneiss	(2)	180	1.05	(2)	(2)	18.0	7
10379	Smyrna (3¼ miles west of)	do	Magnetite quartzite	(2)	172	.84	(2)	(2)	18.0	7
9580	Newnan (3½ miles northeast of)	Coweta	Diabase	(2)	190	.36	2.4	16.7	18.7	28
9581	Newnan (4 miles southeast of)	do	do	(2)	190	.40	2.2	18.2	19.3	37
415	(1)	do	do	(2)	193	.21	2.3	17.4	(2)	(2)
9869	Lela	Decatur	Siliceous shell limestone	(2)	125	2.51	22.2	1.8	19.3	5
11941	Constitution	De Kalb	Granite	21,280	165	.58	3.2	12.5	18.0	12
11204	Decatur (near)	do	Biotite gneiss	(2)	162	.65	3.8	10.5	18.0	12
11205	do	do	Granite	(2)	161	1.07	7.3	5.5	18.0	6
11206	do	do	Biotite gneiss	(2)	168	.73	5.3	7.5	17.3	9
421	Lithonia	do	Granite	(2)	168	.12	4.8	8.3	(2)	(2)
9325	do	do	do	(2)	165	.14	4.6	8.7	18.5	5
9326	do	do	Gneissoid granite	(2)	165	.36	5.1	7.8	18.3	3
9327	do	do	Granite	(2)	165	.24	4.5	8.9	18.8	4
11940	do	do	do	(2)	163	.43	4.6	8.7	17.9	6
11942	do	do	do	15,325	163	.51	4.7	8.5	17.8	6

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

GEORGIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
11943	Lithonia	De Kalb	Granite	17,830	163	0.63	4.0	10.0	18.2	7
13502	do	do	do	(2)	166	.49	3.6	11.1	(2)	8
13533	do	do	do	(2)	164	.54	5.4	7.4	(2)	9
19344	do	do	do	27,250	164	.54	5.6	7.1	17.3	9
19940	do	do	Muscovite granite	17,695	163	.74	6.0	6.7	17.3	5
19941	do	do	Biotite granite	25,000	163	.59	5.6	7.1	18.0	6
19942	do	do	Muscovite granite	24,865	163	.46	5.6	7.1	17.7	7
20001	do	do	Granite	26,630	164	.54	4.4	9.1	18.7	7
20095	do	do	do	20,620	163	.54	5.5	7.3	17.7	7
20121	do	do	do	28,100	162	.78	4.2	9.5	18.3	8
20122	do	do	do	23,080	164	.51	4.7	8.5	18.3	5
20151	do	do	do	24,300	163	.55	4.4	9.1	19.0	6
23041	do	do	do	28,265	164	.55	4.1	9.8	18.7	7
23774	do	do	do	25,050	166	.54	(2)	(2)	18.7	7
23775	do	do	do	28,220	165	.38	4.7	8.5	18.3	7
23855	do	do	do	(2)	165	.51	(2)	(2)	18.0	8
23856	do	do	do	(2)	164	.61	(2)	(2)	18.3	6
23857	do	do	do	(2)	165	.53	(2)	(2)	18.7	7
23858	do	do	do	(2)	164	.70	(2)	(2)	18.7	7
24380	do	do	do	24,380	163	.66	4.9	8.2	18.3	6
24405	do	do	do	24,940	165	.33	4.7	8.5	18.0	7
24406	do	do	do	23,820	165	.25	(2)	(2)	18.3	7
25096	do	do	do	30,450	164	.47	5.4	7.4	18.7	7
25097	do	do	Biotite granite	26,140	164	.47	3.6	11.1	17.3	6
27587	do	do	Granite	28,290 [3] 40,640 21,930	163	.47	4.2	9.5	18.7	10
27588	do	do	Biotite granite	33,560 [3] 29,650 18,680	164	.36	4.5	8.9	18.7	9
27595	do	do	Granite	34,820 [3] 21,875	164	.41	4.0	10.0	18.7	9
423	Stone Mountain	do	do	(3)	162	.16	5.3	7.5	(2)	(2)
5586	do	do	Muscovite granite	19,240	(2)	(2)	(2)	(2)	18.2	9
9579	do	do	do	(2)	165	.25	4.4	9.1	18.5	6
12078	do	do	Granite	11,220	164	.63	4.5	8.9	17.3	7
27586	do	do	Muscovite granite	26,060 [3] 27,360 19,680	164	.43	4.2	9.5	18.7	9

9140	(1)	do	Hornblende gneiss	(2)	175	.83	5.1	7.8	16.8	6
416	Elberton	Elbert	Granite	(2)	168	.15	3.0	13.3	(2)	(2)
17641	do	do	Biotite granite	28,360	165	.38	3.6	11.1	18.7	12
19521	do	do	do	27,945	165	.03	4.1	9.8	18.7	9
22751	do	do	do	27,165	164	.45	3.0	13.3	18.7	11
23483	do	do	do	30,300	165	.42	2.7	14.8	18.7	11
7941	Oglesby	do	do	26,400	(2)	(2)	(2)	(2)	18.4	9
23474	do	do	do	(2)	165	.51	2.2	18.2	18.7	10
10221	Armuchee (1 mile southeast of)	Floyd	Crystalline limestone	(2)	168	.35	5.5	7.3	15.0	6
10222	do	do	Oolitic limestone	(2)	168	.20	4.2	9.5	16.0	8
10223	do	do	Limestone	(2)	168	1.12	3.8	10.5	16.7	8
10224	do	do	Argillaceous limestone	(2)	167	.59	4.0	10.0	17.3	16
10198	Huffaker	do	Limestone	(2)	170	.22	3.6	11.1	16.0	6
10199	Lavender (near)	do	Sandstone	(2)	163	1.47	(2)	(2)	17.7	29
10203	Pinson (1½ miles south of)	do	Limestone	(2)	169	.22	4.9	8.2	15.3	5
10197	Robinson (near)	do	Calcareous shale	(2)	163	2.14	(2)	(2)	10.7	8
10211	Rome	do	Argillaceous limestone	(2)	167	.95	5.6	7.1	14.7	13
8691	Rome (2 miles south of)	do	Limestone	(2)	168	.18	6.1	6.6	15.5	4
10200	Rome (3 miles north of)	do	Argillaceous limestone	(2)	168	.21	5.1	7.8	15.7	3 3 12
10202	(1)	do	Limestone	(2)	170	.44	5.1	7.8	15.7	4
3092	Atlanta	Fulton	Granite	(2)	(2)	(2)	(2)	(2)	18.3	8
3100	do	do	do	(2)	(2)	(2)	(2)	(2)	18.3	8
9139	do	do	Granite gneiss	(2)	165	.39	3.2	12.5	18.3	10
9182	do	do	Biotite schist	(2)	178	.55	4.6	8.7	16.5	9
9183	do	do	Granite	(2)	165	.21	3.4	11.8	18.7	16
9186	do	do	Granite gneiss	(2)	168	.16	5.6	7.1	17.8	11
9187	do	do	Hornblende gneiss	(2)	175	.30	5.5	7.3	15.8	8
9188	do	do	Biotite gneiss	(2)	184	.16	5.1	7.8	(2)	(2)
9194	do	do	Sericite gneiss	(2)	165	.65	4.8	8.3	18.0	8
9200	do	do	Granite gneiss	(2)	168	.31	3.9	10.3	18.3	11
9305	do	do	Biotite gneiss	(2)	172	.31	4.6	8.7	17.5	6
9310	do	do	Granite gneiss	(2)	168	.44	6.6	6.1	18.0	7
9311	do	do	Granite	(2)	168	.25	6.8	5.9	17.7	5
9755	do	do	Mica gneiss	(2)	165	.38	3.0	13.3	18.7	10
9759	do	do	Granite gneiss	(2)	168	.30	3.8	10.5	18.3	13
9764	do	do	Gneissoid granite	(2)	162	.85	(2)	(2)	19.3	8
9765	do	do	Biotite gneiss	(2)	165	.18	5.0	8.0	18.7	6
9766	do	do	Granite gneiss	(2)	165	.36	3.4	11.8	18.0	9
9767	do	do	Hornblende-biotite gneiss	(2)	175	.26	4.4	9.1	16.7	6
422	Atlanta (near)	do	Hornblende gneiss	(2)	187	.98	3.9	10.3	(2)	(2)
7020	Atlanta (8 miles north of)	do	Sericite schist	(2)	168	.24	4.0	10.0	17.8	10
9137	Atlanta (near)	do	Granite	(2)	165	.35	4.1	9.8	18.3	6
9138	do	do	Granite gneiss	(2)	172	.27	2.8	14.3	18.2	7
9141	do	do	do	(2)	165	1.00	4.3	9.3	18.3	5
9142	do	do	Hornblende-biotite gneiss	(2)	172	.54	4.1	9.8	19.0	7
9143	do	do	Biotite granite	(2)	172	.39	5.1	7.8	17.7	6
9144	do	do	Granite	(2)	165	.50	4.8	8.3	18.3	7
9145	do	do	Biotite gneiss	(2)	172	.54	4.3	9.3	18.5	9
9147	do	do	Biotite granite	(2)	168	.28	7.7	5.5	18.5	7
9148	do	do	Biotite gneiss	(2)	165	.67	11.8	3.4	(2)	(2)

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

GEORGIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
9149	Atlanta (near)	Fulton	Biotite granite	(2)	168	0.32	8.6	4.7	17.0	4
9150	do	do	do	(2)	165	.57	7.4	5.4	14.6	5
9151	do	do	Biotite gneiss	(2)	172	.50	5.6	7.1	18.5	6
9152	do	do	do	(2)	172	.54	3.2	12.5	16.7	6
9153	do	do	Orthoclase-biotite schist	(2)	168	.54	3.1	12.9	18.0	14
9154	do	do	Granite gneiss	(2)	168	.34	3.8	10.5	17.7	7
9155	do	do	do	(2)	168	.71	4.5	8.9	18.0	7
9156	do	do	Biotite gneiss	(2)	168	.33	5.7	7.0	18.5	7
9157	do	do	do	(2)	168	.40	3.4	11.8	18.3	10
9175	do	do	do	(2)	172	.72	4.2	9.5	18.5	6
9176	do	do	Granite gneiss	(2)	168	.40	3.3	12.1	18.7	13
9177	do	do	Biotite schist	(2)	168	.71	8.6	4.7	(2)	(2)
9178	do	do	Mica schist	(2)	168	.49	6.1	6.6	18.3	(2)
9179	do	do	Granite gneiss	(2)	165	.32	3.2	12.5	18.3	9
9180	do	do	Hornblende schist	(2)	187	.52	4.3	9.3	17.7	6
9181	do	do	Granite gneiss	(2)	168	.45	2.9	13.8	18.7	6
9184	do	do	Biotite granite	(2)	168	.33	4.8	8.3	17.2	5
9185	do	do	Biotite gneiss	(2)	168	.29	5.7	7.0	18.6	11
9189	do	do	do	(2)	168	.26	3.8	10.5	19.0	12
9190	do	do	do	(2)	175	.31	7.6	5.3	(2)	(2)
9191	do	do	do	(2)	168	.23	4.1	9.8	18.5	8
9192	do	do	Granite gneiss	(2)	168	.41	8.7	4.6	18.0	7
9193	do	do	do	(2)	165	.72	3.9	10.3	18.5	7
9195	do	do	Hornblende schist	(2)	187	.54	5.3	7.5	18.3	10
9196	do	do	Granite gneiss	(2)	165	.36	4.9	8.2	18.0	7
9197	do	do	Hornblende-epidote schist	(2)	184	.43	6.5	6.2	17.7	15
9198	do	do	do	(2)	187	.24	5.3	7.5	17.7	9
9199	do	do	Muscovite schist	(2)	162	.52	7.2	5.6	17.7	5
9201	do	do	Granite gneiss	(2)	165	.53	4.4	9.1	(2)	(2)
9298	do	do	Biotite gneiss	(2)	175	.50	12.9	3.1	17.8	9
9299	do	do	do	(2)	168	.42	4.3	9.3	17.3	5
9300	do	do	do	(2)	165	.42	3.7	10.8	17.8	11
9301	do	do	Granite porphyry	(2)	159	2.39	6.9	5.8	(2)	(2)
9302	do	do	Biotite schist	(2)	168	.47	7.0	5.7	(2)	8
9303	do	do	Granite gneiss	(2)	168	.39	4.8	8.3	(2)	(2)
9304	do	do	Biotite schist	(2)	168	1.59	7.6	5.3	(2)	(2)
9306	do	do	Biotite gneiss	(2)	168	.51	3.8	10.5	15.7	9
9307	do	do	Feldspathic quartzite	(2)	165	.34	2.8	14.3	19.0	16
9308	do	do	Biotite schist	(2)	172	.26	6.1	6.6	18.3	15

9309	do	do	Hornblende gneiss	(2)	172	.16	13.6	2.9	18.2	6
9312	do	do	Biotite gneiss	(2)	168	.25	4.1	9.8	17.7	8
9313	do	do	Biotite granite	(2)	165	.31	6.8	5.9	18.5	3
9314	do	do	Biotite gneiss	(2)	168	.37	3.7	10.8	17.3	5
9315	do	do	Weathered granite	(2)	165	1.13	13.4	3.0	14.3	5
9316	do	do	Biotite granite	(2)	168	.38	7.3	5.5	17.3	4
9317	do	do	do	(2)	165	.60	12.8	3.1	15.0	4
9318	do	do	Biotite gneiss	(2)	168	.49	4.4	9.1	18.8	10
9319	do	do	do	(2)	175	.54	7.5	5.3	17.5	(2)
9320	do	do	Biotite schist	(2)	175	.27	5.4	7.4	15.5	16
9321	do	do	Feldspathic quartzite	(2)	162	.51	5.1	7.8	18.5	20
9322	do	do	Biotite gneiss	(2)	175	.53	7.4	5.4	17.2	4
9323	do	do	do	(2)	172	.19	5.6	7.1	17.5	5
9324	do	do	do	(2)	175	.25	5.0	8.0	17.8	5
9574	do	do	Biotite granite	(2)	165	.68	5.1	7.8	18.7	5
9575	do	do	do	(2)	165	.43	3.1	12.9	18.5	9
9576	do	do	Biotite schist	(2)	168	.58	6.4	6.2	17.7	7
9582	do	do	Granite	(2)	168	.31	5.0	8.0	19.0	8
9583	do	do	Gneissoid granite	(2)	162	.53	7.8	5.1	19.0	5
9584	do	do	Biotite gneiss	(2)	175	.45	6.9	5.8	18.7	6
9585	do	do	Altered granite porphyry	(2)	162	.69	7.9	5.1	(2)	(2)
9586	do	do	Biotite granite	(2)	168	.62	8.1	4.9	17.7	6
9587	do	do	do	(2)	168	.28	6.4	6.2	19.7	7
9588	do	do	Muscovite gneiss	(2)	165	.38	6.5	6.2	17.8	8
9589	do	do	Biotite-epidote schist	(2)	178	.32	3.5	11.4	18.0	4
9590	do	do	Granite gneiss	(2)	165	.42	4.4	9.1	18.7	7
9591	do	do	Schistose quartzite	(2)	172	.32	3.5	11.4	18.8	11
9751	do	do	Biotite granite	(2)	168	.32	3.7	10.8	18.3	8
9752	do	do	Granite gneiss	(2)	165	.53	(2)	(2)	18.7	9
9753	do	do	Gneissoid granite	(2)	168	.35	3.8	10.5	(2)	(2)
9754	do	do	Biotite gneiss	(2)	165	.94	8.4	4.8	17.3	7
9756	do	do	Granite gneiss	(2)	165	.30	4.3	9.3	18.7	7
9757	do	do	do	(2)	165	1.01	(2)	(2)	17.2	7
9758	do	do	do	(2)	165	.41	4.1	9.8	19.3	13
9760	do	do	do	(2)	165	.40	3.5	11.4	18.3	9
9761	do	do	Gneissoid granite	(2)	165	.34	4.7	8.5	18.0	7
9762	do	do	Biotite gneiss	(2)	172	1.03	(2)	(2)	14.7	4
9763	do	do	Hornblende gneiss	(2)	184	.77	(2)	(2)	19.0	7
9146	College Park	do	Biotite gneiss	(2)	178	.62	10.5	3.8	17.0	4
10396	Fairmount (1½ miles south of)	Gordon	Limestone	(2)	169	.27	5.3	7.5	14.7	5
10397	Fairmount (1½ miles southwest of)	do	do	(2)	170	.08	4.1	9.8	15.3	6
38	(1)	do	Chert	(2)	(2)	(2)	4.8	8.3	(2)	(2)
21023	Grayson	Gwinnett	Gneissoid granite	26,460	162	.68	4.5	8.9	18.0	7
10559	Grayson (2 miles east of)	do	Biotite granite	(2)	158	.71	5.7	7.0	18.0	5
10561	Grayson (southwest of)	do	Gneissoid granite	(2)	162	.67	5.2	7.7	17.5	4
10563	Grayson (3 miles southwest of)	do	Granite	(2)	162	.78	5.5	7.3	18.3	6
10553	Lawrenceville	do	Granite gneiss	(2)	159	.62	4.4	9.1	17.0	5
10547	Lawrenceville (4 miles northwest of)	do	Biotite-hornblende schist	(2)	183	.60	(2)	(2)	15.7	5
10554	Lawrenceville (4 miles southwest of)	do	Granite	(2)	165	.33	5.9	6.8	19.2	6
10555	Lawrenceville (1½ miles east of)	do	do	(2)	162	.86	(2)	(2)	17.7	4
10556	Lawrenceville (4 miles northeast of)	do	Hornblende schist	(2)	196	.65	6.6	6.1	(2)	(2)

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

GEORGIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
10557	Lawrenceville (6 miles southeast of)	Gwinnett	Granite	(2)	162	0.72	4.9	8.2	18.4	6
10558	do	do	do	(2)	162	.61	4.6	8.7	18.0	5
10650	Lawrenceville (4 miles west of)	do	Amphibolite	(2)	190	.32	3.4	11.8	18.0	13
10564	Rosebud	do	Biotite gneiss	(2)	162	.69	5.6	7.1	18.9	6
10565	Snellville (2 miles northwest of)	do	do	(2)	162	.73	5.5	7.3	17.7	3
10566	Snellville (2 miles southeast of)	do	Granite	(2)	162	.73	4.0	10.0	18.3	6
10560	(1)	do	Gneissoid granite	(2)	162	.71	5.2	7.7	18.2	4
10562	(1)	do	Granite	(2)	162	.82	6.7	6.0	17.5	4
1639	Gainesville	Hall	Dolomitic marble	(2)	178	.26	5.7	7.0	13.7	7
1640	do	do	do	(2)	178	.21	4.1	9.8	9.6	5
1641	do	do	do	(2)	175	.52	6.7	6.0	13.8	4
2469	do	do	Granite gneiss	(2)	(2)	(2)	(2)	(2)	19.3	11
2470	do	do	do	(2)	(2)	(2)	(2)	(2)	18.2	8
2471	do	do	Mica schist	(2)	(2)	(2)	(2)	(2)	15.5	6
9203	Cataula	Harris	Biotite gneiss	(2)	172	.27	4.5	8.9	17.8	7
9204	do	do	Granite gneiss	(2)	165	.26	4.6	8.7	18.7	7
9331	Stockbridge (2 miles from)	Henry	Granite	(2)	162	.98	2.6	15.4	19.0	7
9333	do	do	do	(2)	162	.57	6.8	5.9	19.2	6
9336	do	do	do	(2)	168	.36	6.5	6.2	18.3	4
10545	Holder Siding (near)	Jackson	Hornblende gneiss	(2)	165	.48	4.0	10.0	18.3	7
10546	Jefferson (4 miles north of)	do	Granite	(2)	163	.65	5.6	7.1	18.3	5
10656	Jefferson (3 miles east of)	do	Hornblende schist	(2)	190	.04	(2)	(2)	17.0	4
10543	Pendergrass	do	Olivine diabase	(2)	184	.09	3.6	11.1	19.0	16
10544	Talmo	do	Granite gneiss	(2)	161	1.13	7.6	5.3	(2)	5
420	Roberts Station (near)	Jones	Diabase	(2)	187	.42	2.6	15.4	(2)	(2)
10897	Robertsville (1½ miles northeast of)	do	Argillaceous sandstone	(2)	105	19.90	12.2	3.3	(2)	(2)
10655	Dublin (near)	Laurens	Chert	(2)	150	4.03	8.2	4.9	20.0	7
9328	Harris City (2 miles from)	Meriwether	Granite	(2)	162	.31	7.7	5.2	18.0	4
9578	Greenville (near)	do	do	(2)	165	.47	3.5	11.4	18.7	6
10384	Roswell (near)	Milton	Granite gneiss	(2)	167	.56	6.6	6.1	18.0	8
10385	do	do	do	(2)	163	.59	6.9	5.8	18.7	6
28750	Bolingbroke	Monroe	Biotite gneiss	(2)	167	.53	4.4	9.1	(2)	(2)
28751	Bolingbroke (near)	do	do	12,580 / (3) 23,730	166	.93	8.8	4.5	17.0	6
9332	Juliette (5½ miles southeast of)	do	Quartzite	(2)	168	.39	2.3	17.4	18.0	15
9335	do	do	Aplitic granite	(2)	165	.23	3.9	10.3	17.8	5
9334	Juliette (½ mile north of)	do	Hornblende gneiss	(2)	184	.37	6.1	6.6	16.5	4
21037	Columbus	Muscogee	Opaline sandstone	(2)	124	9.92	25.6	1.6	13.3	4
10858	Columbus (4 miles north of)	do	Hornblende gneiss	(2)	179	.25	4.5	8.9	16.7	5

10859	do	do	do	(2)	179	.45	5.0	8.0	16.7	5
10864	Columbus (8 miles north of)	do	Granite gneiss	(2)	163	.83	4.3	9.3	18.7	7
10881	Columbus (east of)	do	do	(2)	165	.36	3.9	10.3	18.7	7
10860	Fortson (2 miles southeast of)	do	Biotite gneiss	(2)	168	.40	4.2	9.5	19.3	8
10861	Fortson (4 miles south of)	do	do	(2)	167	.48	3.7	10.8	18.7	10
10862	Fortson (1 mile southwest of)	do	do	(2)	164	.89	5.3	7.5	18.7	9
10863	Gentian (3½ miles northeast of)	do	do	(2)	163	.50	3.6	11.1	18.7	9
10865	do	do	Hornblende gneiss	(2)	163	.58	3.7	10.8	18.7	10
9542	Covington	Newton	Gneissoid granite	(2)	165	.63	4.0	10.0	18.2	7
9539	Covington (near)	do	Biotite granite	(2)	162	.89	5.9	6.8	(2)	(2)
9543	do	do	Altered chert	(2)	162	1.25	10.5	3.8	(2)	(2)
9540	Oxford (near)	do	Granite	(2)	162	.85	9.1	4.4	18.5	4
9541	do	do	do	(2)	165	.55	8.1	4.9	(2)	(2)
22658	Lexington	Oglethorpe	Biotite granite	20,410	164	.82	3.1	12.9	17.3	6
11518	Marble Hill	Pickens	Marble	(2)	169	.09	15.7	2.5	11.3	2
9019	Tate	do	do	(2)	168	.34	10.2	3.9	12.7	4
9020	do	do	do	(2)	168	.48	(2)	(2)	8.7	4
9330	do	do	do	(2)	172	.26	12.3	3.3	12.0	4
11513	do	do	do	(2)	169	.17	13.2	3.0	9.3	2
11514	do	do	do	(2)	169	.33	12.0	3.3	10.3	2
11515	do	do	do	(2)	169	.40	17.0	2.4	3.9	3
11516	do	do	do	11,340	171	.37	10.6	3.8	10.3	2
11517	do	do	do	8,735	169	.40	(2)	(2)	8.6	3
15757	do	do	do	(2)	168	.47	12.5	3.2	11.3	3
6918	Portland	Polk	Siliceous limestone	(2)	172	.19	3.5	11.4	17.1	10
8688	do	do	Limestone	(2)	172	.26	4.5	8.9	13.7 [3] 16.7	3 [3] 8
8687	Rockmart	do	Dolomitic limestone	(2)	178	.23	3.4	11.8	15.7	10
419	Augusta (near)	Richmond	Granite gneiss	(2)	165	.37	2.6	15.4	(2)	(2)
3733	Conyers	Rockdale	Biotite granite	(2)	165	.24	4.4	9.1	18.6	9
25452	do	do	Granite	25,130	163	.59	4.2	9.5	18.7	8
9500	Conyers (near)	do	do	(2)	165	.40	5.4	7.4	18.7	5
9501	do	do	Gneissoid granite	(2)	165	.51	5.7	7.0	18.0	3
9502	do	do	Granite	(2)	165	.68	4.7	8.5	18.7	5
9503	do	do	Biotite gneiss	(2)	165	.28	5.8	6.9	18.0	4
9504	do	do	Granite	(2)	162	.64	4.5	8.9	18.3	3
9505	do	do	do	(2)	162	.52	3.7	10.8	18.7	3
25285	do	do	Biotite granite	19,760	162	.39	4.2	9.5	(2)	(2)
468	Toccoa	Stephens	Gneiss	(2)	162	.18	5.2	7.7	(2)	(2)
15378	Talbotton (near)	Talbot	Diabase	(2)	187	.32	1.7	23.5	18.7	27
413	(1)	Walker	Limestone	(2)	162	3.35	3.8	10.5	(2)	(2)
414	(1)	do	Chert	(2)	143	3.42	27.9	1.4	(2)	(2)
418	(1)	do	do	(2)	187	3.70	16.4	2.4	(2)	(2)

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

IDAHO

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1261	Boise (near)	Ada	Rhyolite	(2)	134	5.87	6.1	6.6	15.3	6
1263	do	do	Basalt	(2)	172	1.88	7.6	5.3	18.1	9
1264	do	do	do	(2)	180	1.02	2.7	14.8	14.9	12
6162	Pocatello (2 miles southeast of)	Bannock	Olivine basalt	(2)	178	1.44	4.8	8.3	16.3	11
6163	Pocatello (7 miles southeast of)	do	Feldspathic sandstone	(2)	168	.74	(2)	(2)	16.7	6
6164	Pocatello (1 mile southeast of)	do	Feldspathic quartzite	(2)	165	.31	3.1	12.9	19.2	9
10462	Saint Anthony	Fremont	Basalt	(2)	159	4.17	7.2	5.6	16.7	2 [3] 6
4394	Couer d'Alene	Kootenai	do	(2)	178	.98	2.1	19.0	19.0	32
1271	Moscow	Latah	do	(2)	152	5.14	7.7	5.2	5.9	6
1273	do	do	do	(2)	178	1.41	4.6	8.7	(2)	(2)
17329	Filer (1½ miles south of)	Twin Falls	Olivine basalt	(2)	175	1.34	4.6	8.7	16.3	12

ILLINOIS

1522	Quincy	Adams	Limestone	(2)	165	1.66	7.6	5.3	10.6	6
2396	do	do	Marble	(2)	168	1.01	6.0	6.7	13.2	6
2397	do	do	Chert and limestone	(2)	168	.51	5.3	7.5	12.7	5
20990	Quincy (north of)	do	Crystalline limestone	(2)	167	.61	7.2	5.6	11.3	5
20991	do	do	do	(2)	166	.48	8.0	5.0	11.7	5
437	Elco	Alexander	Chert	(2)	156	3.30	5.9	6.8	(2)	(2)
584	do	do	do	(2)	150	4.13	2.7	14.8	(2)	(2)
7148	Olive Branch	do	do	(2)	150	1.69	12.0	3.3	(2)	(2)
15938	do	do	do	(2)	148	1.97	9.7	4.1	(2)	(2)
1443	Ullin (near)	do	do	(2)	162	.50	5.8	6.9	19.4	7
7213	Brookville (near)	Carroll	Argillaceous dolomite	(2)	172	.82	6.4	6.2	10.6	3
7421	do	do	do	(2)	165	2.64	5.4	7.4	15.0	7
7422	do	do	do	(2)	165	3.45	6.1	6.6	14.2	5
7423	do	do	do	(2)	165	2.70	5.2	7.7	13.6	7
2392	Casey	Clark	Limestone	(2)	168	.68	5.2	7.7	15.7	4
5846	do	do	do	(2)	168	.64	4.8	8.3	15.0	8
2391	Marshall	do	do	(2)	165	.91	3.7	10.8	14.8	5
4422	Embarras	Coles	do	17,300	168	1.42	4.2	9.5	14.2	6
7615	Loxa	do	Argillaceous limestone	(2)	168	.43	4.8	8.3	15.0	7
7739	Bellewood	Cook	Argillaceous dolomite	(2)	168	2.11	4.5	8.9	15.8	9
8711	Hillside	do	do	15,730	162	3.97	4.2	9.5	14.7	4

716	Hodgkins	do	Dolomite	(2)	168	.58	4.4	9.1	(2)	(2)
7733	do	do	do	(2)	168	.99	4.2	9.5	13.8	7
8069	LaGrange	do	do	(2)	168	1.59	6.5	6.2	16.0	6
4126	McCook	do	do	(2)	172	.84	6.0	6.7	15.1	8
7768	do	do	do	(2)	172	.76	4.8	8.3	15.8	10
11224	do	do	do	(2)	158	2.33	6.0	6.7	(2)	(2)
5509	Thornton	do	do	23,060	162	2.15	4.9	8.2	13.5	7
5755	do	do	Siliceous dolomite	(2)	156	4.44	5.3	7.5	13.0	6
5772	do	do	Dolomite	(2)	159	.67	5.3	7.5	15.2	8
6053	do	do	do	16,880	172	1.02	6.1	6.6	12.7	7
6083	do	do	do	(2)	165	1.56	5.5	7.3	13.7	5
7754	do	do	do	(2)	168	1.68	4.5	8.9	13.9	10
11226	do	do	do	(2)	157	2.43	6.8	5.9	(2)	(2)
11872	do	do	Argillaceous dolomite	(2)	162	2.27	5.5	7.3	13.6	6
16039	do	do	Dolomite	(2)	159	3.12	4.5	8.9	14.0	7
756	(1)	do	do	(2)	168	.86	5.8	6.9	(2)	(2)
5742	(1)	do	Limestone	(2)	168	.69	3.1	12.9	15.9	9
5929	(1)	do	Altered andesite	(2)	(2)	(2)	(2)	(2)	18.1	16
7737	(1)	do	Dolomite	(2)	168	.88	5.1	7.8	16.0	11
8097	(1)	do	Limestone	(2)	168	.56	4.7	8.5	6.5	4
8147	(1)	do	Dolomite	(2)	162	1.53	4.9	8.2	13.0	6
5798	Elmhurst	Du Page	Argillaceous dolomite	25,230	165	.34	4.6	8.7	17.0	8
2678	Naperville	do	Dolomite	(2)	162	1.64	9.1	4.4	14.2	6
2424	Cherry Point	Edgar	Limestone	(2)	168	.69	6.6	6.1	15.7	4
2389	Paris	do	do	(2)	168	1.02	5.4	7.4	13.7	7
2390	do	do	do	(2)	165	.88	5.3	7.5	15.2	6
6370	Gilmore	Effingham	do	(2)	168	.67	9.2	4.3	16.0	8
2402	Hamilton	Hancock	do	(2)	159	3.71	6.5	6.2	17.2	5
2401	Pontoosuc	do	Argillaceous limestone	(2)	159	4.89	8.0	5.0	8.7	4
3258	Biggsville	Henderson	Limestone	(2)	162	2.45	4.9	8.2	18.1	6
2400	Gladstone	do	do	(2)	162	1.36	9.1	4.4	9.7	5
9228	Grafton	Jersey	Argillaceous dolomite	(2)	159	3.68	6.1	6.6	12.5	5
9229	do	do	do	(2)	156	2.07	7.7	5.2	12.7	4
9230	do	do	do	(2)	162	1.83	7.1	5.6	16.5	4
452	Menominee	Jo Daviess	Limestone	(2)	168	1.80	13.1	3.1	(2)	(2)
7509	Reevesville	Johnson	Argillaceous limestone	25,780	168	.27	5.1	7.8	15.7	6
7510	do	do	do	28,397	168	.34	4.1	9.8	16.3	6
4660	Tunnel Hill	do	Sandstone	19,150	150	2.92	4.4	9.1	15.9	6
6598	Vienna (near)	do	Argillaceous limestone	(2)	165	.73	3.8	10.5	17.8	20
7007	Whitehill	do	Fossiliferous limestone	(2)	168	.34	6.8	5.9	13.9	4
7617	do	do	Argillaceous limestone	(2)	168	.59	3.9	10.3	15.2	7
12236	do	do	Siliceous limestone	(2)	195	.54	4.9	8.2	14.7	12
2638	Batavia	Kane	Limestone	(2)	172	1.06	4.9	8.2	13.1	7
5096	do	do	Dolomite	(2)	165	3.14	6.3	6.3	12.1	9
5097	do	do	do	(2)	165	3.44	5.3	7.5	13.9	8
5098	do	do	do	(2)	168	2.44	4.3	9.3	15.4	9
7558	Elgin	do	do	(2)	172	1.61	4.3	9.3	16.0	16
7029	Bonfield	Kankakee	do	(2)	168	2.76	5.2	7.7	13.2	7
4764	Kankakee	do	do	20,610	168	2.48	4.4	9.1	12.9	7
5550	do	do	do	17,710	165	2.30	6.9	5.8	13.3	5
6165	do	do	do	11,660	162	3.71	5.7	7.0	13.0	4

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

ILLINOIS—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
6443	Kankakee	Kankakee	Argillaceous dolomite	16,650	168	2.97	9.0	4.4	11.7	5
6865	do	do	Dolomite	13,500	162	1.73	6.0	6.7	13.8	4
7023	do	do	do	(2)	159	2.24	7.2	5.6	9.0	4
7028	do	do	do	(2)	162	1.29	6.5	6.2	9.5	4
7071	do	do	do	(2)	165	2.82	6.0	6.7	11.3	4
7072	do	do	Argillaceous limestone	(2)	165	3.31	6.8	5.9	10.7	5
7736	do	do	Dolomite	(2)	168	1.39	4.8	8.3	15.3	9
10367	do	do	do	11,180	158	2.12	8.4	4.8	16.0	5
7298	Lehigh	do	Argillaceous dolomite	25,850	168	1.89	4.8	8.3	14.3	10
7299	do	do	do	20,000	165	3.23	4.9	8.2	13.9	7
7300	do	do	do	19,800	168	7.00	4.5	8.9	14.5	6
7301	do	do	Dolomite	19,700	162	2.28	5.5	7.3	14.3	8
7302	do	do	do	17,050	162	1.86	7.0	5.7	14.5	7
7525	do	do	Argillaceous dolomite	(2)	162	4.98	5.2	7.7	10.8	5
7526	do	do	Dolomite	(2)	165	3.05	4.2	9.5	13.8	6
7871	do	do	Argillaceous dolomite	16,700	168	2.25	3.7	10.8	14.7	7
11790	do	do	do	(2)	157	3.08	7.0	5.7	14.3	7
13297	do	do	Dolomite	(2)	162	2.60	4.6	8.7	12.7	7
7025	Lehigh (near)	do	Argillaceous dolomite	(2)	165	3.28	5.3	7.5	9.2	6
7027	Manteno (near)	do	Dolomite	(2)	172	.84	7.2	5.6	14.0	4
7026	Tucker (near)	do	do	(2)	170	1.04	7.7	5.2	14.2	8
6088	(1)	do	Argillaceous dolomite	20,825	172	1.56	4.5	8.9	15.2	9
10208	Fox Township	Kendall	Dolomite	(2)	169	1.67	4.9	8.2	13.3	8
787	Eagle Township	La Salle	Sandstone	(2)	159	2.20	21.0	1.9	(2)	(2)
5954	Dixon	Lee	Dolomite	(2)	172	1.38	4.7	8.5	16.7	4
9509	do	do	Argillaceous limestone	(2)	168	1.96	8.5	4.7	(2)	(2)
11133	Pontiac	Livingston	do	(2)	156	2.73	12.9	3.1	(2)	(2)
4421	Alton	Madison	Limestone	15,100	168	.82	5.7	7.0	14.0	7
11780	do	do	do	(2)	166	.93	5.9	6.8	12.7	4
8145	(1)	do	do	(2)	168	.77	3.4	11.8	16.0	6
14949	(1)	do	Fossiliferous limestone	(2)	166	1.19	6.0	6.7	18.3	10
8146	(1)	Monroe	Limestone	(2)	162	3.42	2.9	13.8	11.8	6
3118	Hillsboro	Montgomery	do	(2)	172	2.60	6.0	6.7	14.4	6
1585	Oregon	Ogle	Chert	(2)	150	5.66	17.1	2.3	(2)	(2)
2394	Maxwell	Peoria	Limestone	(2)	165	1.48	5.0	8.0	13.5	8
2395	do	do	do	(2)	162	1.71	5.3	7.5	10.7	6
2393	Princeville	do	do	(2)	165	1.73	4.0	10.0	16.0	5
28219	Duquoin	Perry	Siliceous limestone	17,920	151	4.38	4.0	10.0	11.7	15
28220	do	do	do	24,430	157	4.26	3.6	11.1	15.0	12

28221	do	do	do	24,860	161	2.75	6.0	6.7	15.3	9
450	Ullin	Pulaski	do	(2)	156	3.79	5.6	7.1	(2)	(2)
1292	Chester	Randolph	Limestone	(2)	168	.79	3.8	10.5	14.0	6
1293	do	do	Fossiliferous limestone	(2)	159	2.93	4.5	8.9	2.2	4
2398	Moline	Rock Island	Limestone	(2)	165	.99	5.0	8.0	14.0	6
2399	Port Byron	do	Dolomite	(2)	175	.83	5.8	6.9	14.3	8
7214	Columbia	St. Clair	Limestone	(2)	162	2.56	3.4	11.8	11.9	5
7734	East St. Louis	do	do	(2)	168	.47	4.3	9.3	14.3	8
21312	Falling Springs	do	do	(2)	168	.38	4.9	8.2	13.3	6
770	Smithton	do	do	(2)	168	.30	4.4	9.1	(2)	(2)
786	do	do	do	(2)	168	.17	5.9	6.8	(2)	(2)
7622	Stolle	do	do	(2)	168	.28	4.3	9.3	14.7	7
8148	(1)	do	do	(2)	168	.72	3.0	13.3	16.7	6
7652	Winchester	Scott	Argillaceous limestone	(2)	172	.65	5.6	7.1	14.5	3
3225	Anna	Union	Limestone	(2)	168	.61	4.2	9.5	(2)	(2)
5549	do	do	do	19,510	168	.42	3.3	12.1	14.3	9
7623	do	do	do	(2)	165	1.08	5.0	8.0	15.3	5
19451	Cobden	do	Argillaceous limestone	35,320	167	.37	3.5	11.4	16.3	9
20002	do	do	Limestone	22,570	168	.27	4.0	10.0	16.0	10
21171	Cobden (near)	do	do	20,660	169	.41	3.9	10.3	14.7	9
21019	Kaolin	do	do	16,960	166	.37	5.5	7.3	14.0	5
2388	Fairmount	Vermilion	do	(2)	165	1.20	5.1	7.8	14.0	8
1298	Joliet	Will	Dolomite	(2)	168	2.58	4.3	9.3	12.9	6
2773	do	do	Chert	(2)	153	3.84	7.1	5.6	19.2	22
2774	do	do	Dolomite	(2)	165	1.33	5.8	6.9	15.4	5
2775	do	do	do	(2)	165	1.75	5.2	7.7	15.0	4
2776	do	do	do	(2)	172	2.87	4.7	8.5	15.7	9
2777	do	do	do	(2)	168	2.21	4.7	8.5	14.3	10
9827	do	do	do	8,130	168	1.18	4.9	8.2	15.0	8
7374	(1)	(1)	Argillaceous dolomite	(2)	162	4.65	4.7	8.5	11.3	5
8075	(1)	(1)	Dolomite	(2)	165	.76	10.3	3.9	13.8	6

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1346	Pleasant Mills	Adams	Dolomitic limestone	(2)	159	3.56	10.2	3.9	(2)	(2)
7744	Fort Wayne	Allen	Hornblende granite	(2)	168	.50	2.4	16.7	(2)	(2)
1384	Burnsville	Bartholomew	Limestone	(2)	165	.96	6.0	6.7	7.3	5
1416	Grammer	do	do	(2)	159	1.37	6.2	6.5	14.8	8
1382	Hope	do	do	(2)	172	1.71	5.9	6.8	10.2	5
9342	Hartford City	Blackford	Dolomitic limestone	(2)	168	2.68	3.3	12.1	14.8	11
1378	Montpelier	do	do	(2)	165	2.97	3.7	10.8	15.2	(2)
2077	do	do	Dolomite	(2)	172	1.19	6.4	6.2	(2)	(2)
1206	Delphi	Carroll	Limestone	(2)	172	.75	5.1	7.8	15.3	14
21051	do	do	Dolomite	22,250	169	.80	7.2	5.6	14.0	9
1344	Washington township	do	Limestone	(2)	172	.50	8.7	4.6	16.2	21
2851	Logansport	Cass	Cherty limestone	(2)	168	.20	9.1	4.4	14.0	3
3865	do	do	Dolomite	(2)	168	.33	4.1	9.8	16.1	9
5534	do	do	Limestone	20,350	168	.40	5.1	7.8	13.8	5

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

INDIANA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1457	Charlestown	Clark	Limestone	(2)	162	1.41	5.6	7.1	12.8	8
15352	Henryville	do	Dolomitic limestone	(2)	177	1.06	3.5	11.4	17.0	13
1490	Jeffersonville	do	do	(2)	165	1.23	3.4	11.8	12.5	7
9688	(1)	do	Argillaceous dolomite	(2)	150	5.23	10.3	3.9	0.0	3
11082	Brazil	Clay	Limestone	(2)	174	.66	4.3	9.3	17.3	11
1495	Marengo	Crawford	do	(2)	165	1.61	3.7	10.8	15.0	9
5986	do	do	do	(2)	168	.36	4.9	8.2	15.3	10
1468	Milltown	do	Dolomitic limestone	(2)	165	.46	3.4	11.8	15.5	8
5418	do	do	Limestone	(2)	168	.55	3.6	11.1	12.7	8
9136	do	do	do	(2)	168	.49	3.9	10.3	13.5	7
11018	do	do	do	(2)	167	.56	3.3	12.1	16.3	11
11019	do	do	do	(2)	168	.66	3.6	11.1	15.0	7
11020	do	do	do	(2)	167	.60	3.5	11.4	15.3	11
11021	do	do	Argillaceous limestone	(2)	168	1.17	3.0	13.3	15.3	11
11022	do	do	Limestone	(2)	168	.37	4.5	8.9	16.7	6
11023	do	do	do	(2)	168	.61	4.4	9.1	15.7	7
11024	do	do	Pisolitic limestone	(2)	158	2.78	5.2	7.7	8.7	4
11025	do	do	Limestone	(2)	161	2.59	4.5	8.9	14.7	8
1417	Dillsboro	Dearborn	do	(2)	168	.78	4.8	8.3	15.4	7
1418	Weisburg	do	do	(2)	168	.62	4.8	8.3	12.1	8
1420	Greensburg	Decatur	do	(2)	159	2.99	4.7	8.5	11.3	9
1421	do	do	do	(2)	168	1.27	4.5	8.9	16.4	8
4655	do	do	Dolomite	17,960	175	.74	4.8	8.3	14.9	6
1419	New Point	do	Limestone	(2)	172	.93	3.5	11.4	15.0	10
3139	Saint Paul	do	do	(2)	168	.86	3.6	11.1	13.8	7
3140	do	do	Siliceous limestone	(2)	159	3.23	8.3	4.8	(2)	(2)
4658	do	do	Limestone	18,400	168	1.58	5.1	7.8	14.3	5
4659	do	do	Dolomitic limestone	20,510	168	1.14	4.8	8.3	14.7	6
6120	do	do	Crystalline limestone	(2)	168	.88	4.2	9.5	13.2	7
9859	do	do	Argillaceous limestone	(2)	168	2.01	4.4	9.1	14.0	5
10114	do	do	do	(2)	168	1.01	4.0	10.0	13.3	5
11778	do	do	Limestone	(2)	166	1.62	4.7	8.5	12.3	6
4690	Westport	do	Dolomitic limestone	20,000	168	.68	7.4	5.4	13.3	6
14871	Eaton	Delaware	Dolomite	(2)	169	1.43	5.8	6.9	15.7	6
2578	Muncie	do	Dolomitic limestone	(2)	165	2.06	4.3	9.3	16.3	13
8271	do	do	Dolomite	(2)	162	1.51	5.6	7.1	14.7	6
22736	do	do	do	(2)	165	2.45	6.4	6.2	15.0	5
1926	Holland	Dubois	Limestone	(2)	172	.85	3.9	10.3	15.0	10
1927	do	do	do	(2)	172	1.79	3.7	10.8	16.0	11

3086	Jasper (near)	do	do	(2)	165	1.60	(2)	(2)	15.0	1
1928	Johnsburg	do	do	(2)	168	.68	3.5	11.4	15.3	7
19578	Saint Anthony	do	Sandstone	11,250	135	5.82	10.2	3.9	6.7	4
19579	do	do	do	11,980	139	6.77	10.7	3.7	10.7	4
11066	Schnellville	do	Siliceous limestone	(2)	169	2.58	3.8	10.5	15.3	12
3173	(1)	do	Limestone	(2)	165	1.21	3.8	10.5	15.0	9
16723	New Paris	Elkhart	Argillaceous limestone	(2)	166	.12	4.0	10.0	12.0	9
1491	Edwardsville	Floyd	Limestone	(2)	165	1.32	4.4	9.1	13.0	9
15374	Floyds Knobs	do	do	(2)	164	2.43	4.7	8.5	13.3	6
15375	do	do	Feldspathic sandstone	(2)	132	9.64	11.8	3.4	3.7	4
15376	do	do	do	(2)	134	9.75	10.9	3.7	0.0	3
1426	Attica (6 miles northeast of)	Fountain	Chert	(2)	156	2.83	3.0	13.3	(2)	(2)
8214	Veedersburg	do	Argillaceous limestone	(2)	165	1.90	3.6	11.1	16.3	7
1383	Marion	Grant	Limestone	(2)	159	4.72	5.2	7.7	12.4	15
6549	do	do	Argillaceous limestone	(2)	165	1.45	(2)	(2)	13.0	10
1424	Bloomfield (6 miles northeast of)	Greene	Limestone	(2)	168	1.15	3.0	13.3	16.8	10
1389	Noblesville	Hamilton	Dolomite	(2)	172	1.08	4.9	8.2	17.1	9
3446	Corydon	Harrison	Limestone	(2)	168	.52	3.7	10.8	16.7	9
3447	do	do	Argillaceous dolomite	(2)	143	9.40	8.6	4.7	1.8	4
1487	Corydon (near)	do	Dolomitic limestone	(2)	156	1.97	4.5	8.9	17.3	11
1520	Kokomo	Howard	Limestone	(2)	153	6.21	4.2	9.5	11.6	8
5232	do	do	do	(2)	168	.27	5.8	6.9	15.2	6
1340	Kokomo (near)	do	Dolomitic limestone	(2)	153	6.50	4.1	9.8	13.8	17
2286	Huntington	Huntington	Dolomite and flint	(2)	165	2.95	5.2	7.7	13.6	7
2816	do	do	Dolomite	(2)	162	4.40	4.6	8.7	12.0	10
5951	do	do	do	(2)	162	3.98	5.7	7.0	12.3	6
6031	do	do	do	(2)	172	.54	6.0	6.7	15.1	8
6032	do	do	Limestone	(2)	168	.87	6.9	5.8	14.4	8
6038	do	do	Cherty limestone	(2)	165	1.06	6.0	6.7	15.0	8
6871	do	do	Siliceous dolomite	(2)	165	3.20	4.5	8.9	9.9	8
11183	do	do	Dolomite	25,420	163	2.10	4.1	9.8	14.0	7
17944	do	do	Argillaceous dolomite	(2)	161	5.78	7.1	5.6	(2)	(2)
25055	do	do	Dolomite	(2)	163	3.48	7.1	5.6	13.7	7
25056	do	do	Argillaceous dolomite	(2)	155	4.23	6.0	6.7	12.3	8
25057	do	do	do	(2)	162	3.70	5.1	7.8	12.0	10
6066	Markle	do	Dolomite	(2)	168	1.27	14.2	2.8	14.3	5
6873	do	do	do	(2)	168	.79	6.7	6.0	13.3	6
1388	Rockford	Jackson	do	(2)	165	3.29	5.1	7.8	16.8	14
1376	Portland	Jay	do	(2)	168	.69	7.0	5.7	13.0	8
1413	Deputy	Jefferson	Dolomitic limestone	(2)	168	.43	4.7	8.5	10.9	7
4699	do	do	Limestone	19,750	168	.46	5.0	8.0	15.3	9
1414	Hanover	do	Dolomite	(2)	159	3.58	12.3	3.3	4.4	7
1412	North Madison	do	Limestone	(2)	165	3.21	5.2	7.7	12.3	12
1488	Brewersville	Jennings	Dolomitic limestone	(2)	168	.57	3.7	10.8	13.8	8
1458	Hayden	do	Limestone	(2)	168	.93	3.2	12.5	14.9	9
4702	North Vernon	do	Dolomitic limestone	24,790	162	3.79	4.4	9.1	14.9	8
9811	Vernon	do	Dolomite	(2)	159	4.30	5.0	8.0	15.3	9
10834	do	do	Limestone	(2)	167	2.08	3.9	10.3	15.3	9
10847	do	do	Dolomite	(2)	149	6.90	8.1	4.9	12.0	4
11235	do	do	Argillaceous dolomite	24,150	162	3.67	4.8	8.3	12.3	6
11236	do	do	Dolomite	27,490	164	1.45	5.7	7.0	14.7	11

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

INDIANA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
11237	Vernon	Jennings	Limestone	15,330	166	1.00	4.5	8.9	13.3	6
11238	do	do	Argillaceous limestone	14,840	141	9.27	10.9	3.7	8.0	5
540	Bicknell	Knox	Dolomitic limestone	(2)	168	.90	4.0	10.0	(2)	(2)
515	Freelandville	do	Limestone	(2)	172	.65	3.8	10.5	(2)	(2)
588	do	do	Arenaceous dolomite	(2)	175	1.26	2.5	16.0	(2)	(2)
4697	Bedford	Lawrence	Limestone	13,860	159	3.08	6.2	6.5	10.3	6
5027	do	do	do	6,900	156	2.97	6.4	6.2	8.5	4
5028	do	do	do	(2)	165	.76	4.2	9.5	15.3	9
5029	do	do	do	6,450	156	2.42	7.6	5.3	8.3	5
12889	do	do	do	(2)	143	7.75	(2)	(2)	0	4
21105	do	do	do	(2)	140	6.40	12.3	3.3	8.0	3
4698	Lawrenceport	do	do	5,020	156	2.46	13.3	3.0	5.7	3
1423	Mitchell	do	do	(2)	162	1.66	4.6	8.7	13.0	9
4197	do	do	Argillaceous dolomite	12,250	153	5.77	8.1	4.9	2.7	4
1489	Williams (1 mile west of)	do	Dolomitic limestone	(2)	168	.70	4.1	9.8	16.4	8
8752	Anderson	Madison	Limestone	(2)	168	.41	4.5	8.9	17.0	4
1380	Alexandria	do	do	(2)	165	1.41	4.3	9.3	11.8	7
25980	do	do	Dolomite	(2)	161	2.67	6.1	6.6	12.0	7
1381	Frankton	do	Limestone	(2)	165	1.57	4.4	9.1	14.5	7
1379	Ingalls	do	do	(2)	168	.29	5.6	7.1	14.6	5
1714	do	do	do	(2)	168	.41	5.8	6.9	14.5	8
1715	do	do	do	(2)	168	1.35			10.7	5
1459	Shoals (near)	Martin	do	(2)	162	2.00	3.2	12.5	14.9	9
994	Peru (2½ miles southwest of)	Miami	Dolomite	(2)	175	.73	5.6	7.1	14.2	14
1463	Bloomington	Monroe	Limestone	(2)	162	2.16	3.5	11.4	15.8	12
1465	do	do	do	(2)	165	3.32	10.6	3.8	3.9	6
1467	do	do	Dolomitic limestone	(2)	165	1.70	3.0	13.3	15.2	13
8181	do	do	Limestone	(2)	168	.49	5.0	8.0	15.2	5
10493	do	do	do	(2)	185	1.03	4.8	8.3	14.7	7
1464	Bloomington (northeast of)	do	do	(2)	150	4.44	10.8	3.7	0	4
1466	Bloomington (1 mile north of)	do	do	(2)	165	.97	5.3	7.5	9.7	7
10256	Bloomington (east of)	do	do	(2)	(2)	(2)	(2)	(2)	12.0	5
10257	do	do	Argillaceous limestone	(2)	(2)	(2)	(2)	(2)	14.6	5
9450	Victor	do	Limestone	(2)	162	1.98	9.9	4.0	11.8	5
9452	do	do	do	(2)	(2)	(2)	(2)	(2)	15.0	6
25163	Parkersburg	Montgomery	do	(2)	163	1.71	7.3	5.5	16.7	4
1386	Waveland	do	do	(2)	162	1.85	3.9	10.3	8.7	5
1348	Kentland (near)	Newton	do	(2)	168	.33	4.1	9.8	16.4	12
8761	(1)	do	do	(2)	168	.64	3.8	10.5	14.8	5

1409	Rising Sun	Ohio	do	(2)	168	.46	5.5	7.3	13.1	9
1462	Orleans (3 miles northwest of)	Orange	do	(2)	159	3.00	4.4	9.1	14.8	5
516	Spencer	Owen	do	(2)	165	.95	3.5	11.4	(2)	(2)
1341	do	do	do	(2)	168	.88	3.7	10.8	13.8	17
1422	do	do	do	(2)	162	3.00	3.4	11.8	9.4	9
1461	Petersburg	Pike	Calcareous shale	(2)	172	.81	4.9	8.2	.2	9
2980	do	do	Ferruginous sandstone	(2)	150	3.59	39.0	1.0	.0	2
2981	do	do	Feldspathic sandstone	(2)	147	6.28	10.7	3.7	.0	5
2982	do	do	Siliceous limestone	(2)	165	2.23	4.4	9.1	18.8	6
6454	Petersburg (near)	do	Carbonaceous limestone	(2)	175	1.43	2.7	14.8	17.2	20
1492	Mount Vernon	Posey	Limestone	(2)	168	.82	1.8	22.2	15.4	8
1493	do	do	Dolomitic limestone	(2)	168	1.67	3.5	11.4	16.2	15
10519	Fillmore	Putnam	Argillaceous limestone	(2)	159	2.22	(2)	(2)	11.2	6
10520	do	do	do	(2)	162	2.00	(2)	(2)	12.0	6
1342	Greencastle	do	Limestone	(2)	168	.43	4.3	9.3	12.9	7
1210	do	do	do	(2)	165	1.12	3.9	10.3	13.9	8
1347	do	do	do	(2)	165	1.53	4.5	8.9	15.5	8
2111	do	do	do	(2)	168	.79	4.2	9.5	15.0	7
2112	do	do	do	(2)	168	.70	3.4	11.8	13.0	8
3368	do	do	do	16,010	168	.59	3.2	12.5	15.8	11
9860	do	do	do	(2)	168	.66	(2)	(2)	16.7	5
10727	do	do	do	(2)	160	1.07	7.3	5.5	9.0	3
11818	do	do	do	(2)	167	.66	6.9	5.8	15.3	5
1212	Greencastle (near)	do	do	(2)	168	.52	3.2	12.5	14.2	12
1343	do	do	do	(2)	168	.79	3.9	10.3	17.3	11
1345	Russellville (near)	do	do	(2)	165	.99	4.4	9.1	13.7	9
1350	Ridgeville	Randolph	Dolomitic limestone	(2)	165	.77	7.2	5.6	7.9	6
1659	do	do	Dolomite	(2)	168	2.11	8.7	4.6	16.7	9
5869	do	do	do	(2)	165	1.77	7.7	5.2	14.3	7
4700	Holton	Ripley	Dolomitic limestone	19,470	168	.89	4.6	8.7	12.9	6
5565	do	do	Limestone	(2)	168	.64	4.0	10.0	14.2	8
4701	Osgood	do	Dolomite	20,190	168	.62	5.0	8.0	13.5	7
5737	do	do	Limestone	14,470	168	1.06	8.1	4.9	13.7	9
23824	do	do	do	16,485	169	.35	4.8	8.3	15.7	5
1438	New Salem	Rush	Dolomite	(2)	162	2.33	12.7	3.2	13.0	5
1410	Rushville	do	Limestone	(2)	168	2.18	2.7	14.8	8.6	6
1456	Lexington	Scott	do	(2)	165	2.27	3.3	12.1	12.2	9
2006	Shelbyville	do	do	(2)	162	2.53	5.6	7.1	15.7	11
2007	do	do	do	(2)	168	1.82	4.0	10.0	11.7	7
2005	Waldron	do	do	(2)	162	2.37	4.2	9.5	7.7	5
9135	(1)	Sullivan	Argillaceous dolomite	(2)	165	1.36	3.8	10.5	15.2	7
1415	Vevay	Switzerland	Limestone	(2)	168	.57	5.4	7.4	12.8	8
1411	(1)	do	do	(2)	168	.80	4.0	10.0	11.1	9
1494	Evansville	Vanderberg	Dolomitic limestone	(2)	168	1.38	4.0	10.0	15.8	8
1349	Wabash	Wabash	Limestone	(2)	159	2.43	4.6	8.7	(2)	(2)
1390	do	do	do	(2)	162	3.29	3.8	10.5	15.3	10
1391	do	do	Dolomitic limestone	(2)	172	.43	3.3	12.1	16.0	9
1647	do	do	Limestone	(2)	165	1.10	4.3	9.3	15.0	6
4657	do	do	Dolomitic limestone	18,790	168	.87	3.9	10.3	14.5	6
880	Williamsport	Warren	Calcareous sandstone	(2)	156	5.10	7.0	5.7	(2)	(2)
1460	Boonville	Warrick	Limestone	(2)	168	.97	3.3	12.1	17.2	11

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

INDIANA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
10020	Elberfeld	Warrick	Limestone	(2)	159	3.81	4.5	8.9	15.3	9
6773	(1)	Washington	do	(2)	162	2.00	5.2	7.7	10.7	7
1385	Richmond	Wayne	do	(2)	168	.89	4.5	8.9	15.3	6
6876	do	do	Argillaceous dolomite	(2)	172	1.26	5.7	7.0	15.2	4
1377	Bluffton	Wells	Dolomite	(2)	170	1.65	6.3	6.3	15.8	13
1387	do	do	do	(2)	172	.54	5.8	6.9	17.0	8
6872	do	do	Argillaceous dolomite	(2)	168	1.80	6.9	5.8	16.4	4
9935	do	do	Dolomite	(2)	165	2.89	6.2	6.5	15.0	8
25058	do	do	Argillaceous dolomite	(2)	166	3.01	5.2	7.7	15.3	8
25059	do	do	do	(2)	159	4.46	6.0	6.7	13.3	8
25060	do	do	do	(2)	167	2.59	4.8	8.3	16.7	9
24673	Bluffton (1½ miles north of)	do	Dolomite	14,310	163	3.21	5.0	8.0	15.3	6
1469	Monon	White	do	(2)	168	1.04	(2)	(2)	14.3	9
14730	do	do	do	(2)	170	.41	5.6	7.1	15.7	7
9007	Columbia City	Whitley	Limestone	(2)	168	.53	5.2	7.7	11.9	4
9008	do	do	Argillaceous dolomite	(2)	172	1.29	4.6	8.7	17.0	8
10693	(1)	(1)	Limestone	(2)	166	1.24	5.4	7.4	13.5	5
10694	(1)	(1)	Argillaceous limestone	(2)	148	8.75	8.9	4.5	.0	3

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13913	Glory	Black Hawk	Limestone	(2)	161	0.36	4.7	8.5	15.0	4
21066	do	do	Argillaceous dolomite	(2)	153	6.33	6.4	6.2	7.3 [3] 11.3	6
462	Raymond	do	do	(2)	168	.64	4.5	8.9	(2)	(2)
8912	Mason City	Cerro Gorda	Limestone	(2)	168	.62	6.0	6.7	13.0	2
8913	do	do	Dolomite	(2)	175	1.12	3.8	10.5	13.7	6
8914	do	do	Limestone	(2)	165	1.53	5.7	7.0	13.0	3
7704	Center Grove	Dubuque	Argillaceous dolomite	(2)	171	1.59	14.6	2.7	13.6	6
8922	Dubuque	do	do	(2)	172	1.57	4.7	8.5	13.7	9
11783	do	do	do	(2)	169	1.55	5.7	7.0	15.0	7
22785	do	do	Dolomite	(2)	167	1.89	3.0	13.3	13.3	8
7854	Dyersville (near)	do	Argillaceous dolomite	(2)	168	1.30	13.8	2.9	10.8	4
7855	Farley (near)	do	do	(2)	168	4.13	11.3	3.5	5.1	4
455	Peosta	do	Dolomite	(2)	159	3.30	11.6	3.4	(2)	(2)
7856	(1)	do	Argillaceous dolomite	(2)	165	3.10	6.5	6.2	12.0	5

7857	(1)	do	do	(2)	165	2.60	(2)	(2)	5.2	3
7858	(1)	do	do	(2)	168	2.10	10.2	3.9	13.7	7
7860	(1)	do	do	(2)	173	.95	5.8	6.9	14.0	5
7859	Stone City	Jones	do	(2)	168 [4] 153	(2)	7.6	5.3	15.5 [4] 2.2	7 [4] 4
13903	do	do	Dolomite	(2)	132	11.81	14.5	2.8	.0	4
5972	Ballenger	Lee	Limestone	(2)	162	2.17	5.5	7.3	9.2	4
5525	Cedar Rapids	Linn	Dolomitic limestone	19,950	172	1.34	6.7	6.0	16.8	11
6102	do	do	Dolomite	(2)	156	3.81	14.9	2.7	.0	3
6103	do	do	Limestone	(2)	168	1.64	4.6	8.7	10.0	8
5973	Peru	Madison	do	(2)	165	1.55	4.6	8.7	15.6	8
5526	Legrand	Marshall	do	14,850	165	2.14	4.6	8.7	15.3	6
11614	(1)	Mills	do	(2)	166	.43	5.4	7.4	15.7	8 [3] 3
7121	Buffalo	Scott	do	(2)	165	2.50	5.1	7.8	7.9	3
21283	do	do	Argillaceous limestone	(2)	164	1.84	8.1	4.9	12.0	4
21284	Linwood	do	do	(2)	160	2.93	8.6	4.7	8.7	6
21285	do	do	do	(2)	165	2.10	7.0	5.7	7.3	4
21286	do	do	do	(2)	164	1.39	5.6	7.1	14.3	7
15961	(1)	Story	Dolomite	(2)	(2)	(2)	6.4	6.2	(2)	(2)
15962	(1)	do	Limestone	(2)	(2)	(2)	3.4	11.8	(2)	(2)
383	Butterville	Tama	Argillaceous limestone	(2)	162	3.23	21.9	1.8	(2)	(2)
384	Montour	do	Oolitic limestone	(2)	162	1.65	6.7	6.0	(2)	(2)

KANSAS

24883	Atchison	Atchison	Siliceous limestone	(2)	169	0.25	4.2	9.5	15.3	10
24884	do	do	do	(2)	156	4.22	5.7	7.0	9.0	7
24885	do	do	Argillaceous limestone	(2)	149	6.28	8.0	5.0	9.7	6
9599	Fort Scott (7 miles west of)	Bourbon	Limestone breccia	7,385	147	5.11	12.5	3.2	5.0	3
28399	Eldorado	Bulter	Argillaceous limestone	(2)	145	7.55	8.2	4.9	.0	3
28400	do	do	do	(2)	147	5.95	7.8	5.1	.3	4
28401	do	do	do	(2)	138	8.92	13.4	3.0	.0	5
28402	do	do	do	(2)	139	7.80	13.0	3.1	9.3	4
29636	do	do	do	(2)	143	7.52	8.9	4.5	.0	4
26831	Eldorado (3 miles south of)	do	do	(2)	142	6.89	7.4	5.4	11.7	3
15939	Sedan	Chautauqua	do	(2)	155	3.64	9.2	4.4	8.7	4
1109	Arkansas City	Cowley	Limestone	(2)	150	4.07	14.9	2.7	.0	3
1111	do	do	do	(2)	153	5.18	(2)	(2)	3.1	3
21024	Wathena	Doniphan	Argillaceous limestone	(2)	161	2.66	5.6	7.1	11.7	4
21025	do	do	Limestone	(2)	161	3.16	8.0	5.0	11.7	4
21026	do	do	Ferruginous limestone	(2)	152	4.27	9.8	4.1	12.3	5
11683	Lawrence	Douglas	Argillaceous limestone	(2)	154	4.40	10.7	3.7	14.7	6
11684	do	do	do	(2)	152	3.97	7.6	5.3	4.0	4
11687	Lawrence (west of)	do	do	(2)	158	2.40	6.1	6.6	8.7	4
11689	Lecompton	do	Cherty limestone	(2)	157	1.01	9.3	4.3	12.0	5
5248	Moline	Elk	Limestone	(2)	159	1.62	7.2	5.6	10.8	5

[1] Exact location not known.
[2] Test not made.
[3] Tests made on specimens drilled at different angles with bedding plane.
[4] Tests made on different samples.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

KANSAS—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
29546	Moline	Elk	Argillaceous limestone	(2)	155	3.90	7.0	5.7	11.3	4
11681	Junction City	Geary	do	(2)	119	12.32	31.8	1.3	.0	3
11682	do	do	Cherty limestone	(2)	134	10.22	13.0	3.1	14.0	2
11695	do	do	Argillaceous limestone	(2)	149	5.44	13.7	2.9	(2)	(2)
11696	do	do	do	(2)	164	1.51	5.7	7.0	14.3	7
1765	Oswego	Labette	Limestone	(2)	168	.73	9.2	4.3	13.3	6
4187	Fort Leavenworth	Leavenworth	do	(2)	165	1.20	4.0	10.0	15.6	11
11692	Neely	do	do	(2)	155	2.60	8.3	4.8	15.7	6
11686	Tonganoxie	do	Argillaceous limestone	(2)	156	2.91	7.6	5.3	11.3	5
4127	(1)	do	Quartzite	(2)	165	.33	2.2	18.2	19.3	25
4186	(1)	do	Argillaceous limestone	(2)	162	2.38	4.6	8.7	15.1	7
2689	Blue Rapids (1 mile north of)	Marshall	Limestone	(2)	156	3.22	6.3	6.3	9.0	4
2690	Blue Rapids (2 miles northeast of)	do	do	(2)	150	5.65	9.6	4.2	15.0	3
9780	Beloit	Mitchell	Argillaceous limestone	(2)	143	6.71	18.2	2.2	4.3	4
11693	Council Grove	Morris	do	(2)	153	3.67	9.1	4.4	11.7	3
11694	do	do	Chert	(2)	153	2.45	4.6	8.7	(2)	(2)
11677	Helmick	do	Argillaceous limestone	(2)	132	8.85	11.5	3.5	16.7	2
11678	do	do	do	(2)	122	9.19	30.1	1.3	2.7	3
11679	do	do	do	(2)	143	6.59	15.0	2.7	.0	3
11680	do	do	do	(2)	134	9.25	19.5	2.1	.0	3
16179	do	do	do	(2)	138	9.20	9.5	4.2	15.7	3
14882	Woodruff (2½ miles west of)	Phillips	Sandstone	(2)	144	1.77	5.7	7.0	18.7	7
2691	Stockdale	Riley	Limestone	(2)	150	6.18	8.6	4.7	11.7	3
14711	(1)	do	Dolomite	(2)	174	2.20	4.0	10.0	15.3	10
11676	Levis	Shawnee	Limestone	(2)	165	1.35	5.1	7.8	13.3	8
11688	do	do	do	(2)	156	3.14	7.7	5.2	16.5	6
11685	Topeka	do	Argillaceous limestone	(2)	152	4.72	8.7	4.6	10.3	6
11690	do	do	do	(2)	151	4.99	7.7	5.2	12.0	5
11691	do	do	do	(2)	144	7.76	7.2	5.6	13.3	3
11697	do	do	do	(2)	160	2.42	6.7	6.0	13.0	6
9267	Fredonia	Wilson	Argillaceous dolomite	(2)	168	1.01	9.0	4.4	12.8	4
23051	Morris (½ mile northeast of)	Wyandotte	do	(2)	150	7.95	8.1	4.9	4.0	6

KENTUCKY

5748	Glasgow	Barren	Crystalline limestone	(2)	168	0.59	3.8	10.5	13.0	5
22524	do	do	Limestone	(2)	168	.52	4.3	9.3	14.3	6
22525	do	do	do	(2)	167	.88	4.9	8.2	14.0	7
28439	Near Bell-Harlan County line	Bell	Sandstone	(2)	152	3.04	6.0	6.7	16.7	8
28440	do	do	do	(2)	154	2.78	5.4	7.4	16.7	8
1993	Catlettsburg	Boyd	do	(2)	156	1.77	6.2	6.5	13.2	7
16746	Jackson	Breathitt	Feldspathic sandstone	(2)	153	4.62	8.6	4.7	.0	5
24220	Mt. Washington	Bullitt	Argillaceous limestone	(2)	173	.71	5.0	8.0	10.0	4
461	Cedar Bluff	Caldwell	Dolomitic limestone	(2)	137	3.16	4.5	8.9	(2)	(2)
6575	do	do	Limestone	(2)	168	1.11	4.3	9.3	16.1	10
7688	do	do	Argillaceous limestone	(2)	168	.51	4.7	8.5	15.3	9
5552	Princeton	do	Dolomitic limestone	(2)	168	1.88	5.1	7.8	14.1	12
10824	Princeton (near)	do	Limestone	(2)	(2)	(2)	(2)	(2)	15.0	7
10825	do	do	do	(2)	(2)	(2)	(2)	(2)	16.0	9
10826	do	do	do	(2)	(2)	(2)	(2)	(2)	17.3	7
10827	do	do	Argillaceous limestone	(2)	(2)	(2)	(2)	(2)	16.3	9
11343	do	do	Cherty limestone	(2)	164	.48	4.5	8.9	16.7	8
16192	do	do	Limestone	(2)	167	.47	6.0	6.7	(2)	(2)
5922	Carter	Carter	Siliceous limestone	(2)	168	.59	3.3	12.1	14.6	7
12754	Grayson (near)	do	Argillaceous limestone	(2)	167	.18	5.1	7.8	15.0	11
1631-1	Limestone	do	Limestone	(2)	165	1.25	(2)	(2)	14.3	7
1631-2	do	do	do	(2)	165	1.08	(2)	(2)	12.1	6
1631-3	do	do	do	(2)	165	.20	(2)	(2)	18.2	14
5921	do	do	do	14,900	165	.75	4.2	9.5	(2)	(2)
17060	Olive Hill	do	do	(2)	169	.15	5.1	7.8	15.3	6
17075	do	do	Ferruginous sandstone	(2)	(2)	(2)	17.6	2.3	.7	(2)
17093	do	do	Limestone	(2)	167	.61	4.5	8.9	15.3	8
17158	do	do	do	(2)	167	.65	4.9	8.2	14.0	6
446	Lexington	Fayette	do	(2)	168	.76	6.2	6.5	(2)	(2)
447	do	do	do	(2)	162	3.54	7.4	5.4	(2)	(2)
10134	do	do	Argillaceous limestone	(2)	168	.19	6.1	6.6	16.0	4
10136	do	do	do	(2)	168	.17	5.5	7.3	12.7	4
26128	Elizabethtown	Hardin	do	(2)	154	2.74	6.2	6.5	14.7	8
26129	do	do	Limestone	(2)	156	2.93	5.0	8.0	14.7	6
2452	Eminence	Henry	do	(2)	165	.93	6.1	6.6	(2)	(2)
2453	do	do	do	(2)	168	.88	7.0	5.7	(2)	(2)
8335	Louisville	Jefferson	Argillaceous dolomite	(2)	165	3.80	5.0	8.0	8.3	6
8336	do	do	Argillaceous limestone	(2)	168	.88	4.7	8.5	13.5	7
8337	do	do	Limestone	(2)	168	1.08	4.1	9.8	18.2	7
8334	Tucker	do	Dolomite	(2)	165	1.87	5.1	7.8	16.2	11
5635	do	do	do	(2)	172	.17	3.7	10.8	13.9	9
6134	do	do	Dolomitic marble	(2)	172	1.59	3.4	11.8	15.7	11
6135	do	do	do	(2)	168	1.63	5.2	7.7	14.8	9
8338	(1)	do	Argillaceous limestone	(2)	168	1.21	5.3	7.5	13.2	7
21176	High Bridge	Jessamine	Limestone	(2)	168	.22	4.5	8.9	14.3	5
21177	do	do	Dolomitic limestone	(2)	169	1.73	3.2	12.5	13.7	8
16637	Nicholasville	do	Argillaceous limestone	(2)	171	1.14	7.0	5.7	(2)	6
17257	do	do	Limestone	(2)	167	1.15	5.3	7.5	14.0	5

[1] Exact locality not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

KENTUCKY—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1654	Paintsville	Johnson	Feldspathic sandstone	(2)	165	1.56	2.1	19.0	16.7	10
25987	Heidrick (11 miles north of)	Knox	do	10,930	155	4.43	6.8	5.9	12.0	5
25988	do	do	do	15,020	158	3.49	6.2	6.5	13.3	6
25989	do	do	do	11,210	153	4.06	7.2	5.6	14.7	5
17061	East Bernstadt	Laurel	do	(2)	143	4.62	9.9	4.0	.7	3
8047	(1)	Logan	Limestone	(2)	168	.64	7.7	5.2	14.5	6
457	Kuttawa	Lyon	Sandstone	(2)	150	8.20	17.8	2.2	(2)	(2)
4919	Berea	Madison	Dolomite	(2)	175	.73	5.7	7.0	15.8	10
4983	do	do	Limestone	(2)	165	.81	3.9	10.3	16.3	8
16778	Brandenburg	Meade	Argillaceous limestone	(2)	143	7.34	9.5	4.2	.0	5
24662	(1)	Menifee	Sandstone	(2)	(2)	(2)	29.4	1.4	(2)	(2)
24663	(1)	do	do	(2)	(2)	(2)	8.8	4.5	(2)	(2)
24664	(1)	do	do	(2)	(2)	(2)	9.2	4.3	(2)	(2)
17011	Harrodsburg	Mercer	Crystalline limestone	(2)	169	.28	8.1	4.9	8.0	4
17658	do	do	Limestone	(2)	169	.20	6.0	6.7	16.7	5
7180	Mount Sterling	Montgomery	Crystalline limestone	(2)	168	.54	6.6	6.1	11.0	6
7181	do	do	do	(2)	168	.61	8.0	5.0	13.8	8
7182	do	do	Siliceous limestone	(2)	165	1.24	5.0	8.0	14.2	11
7183	do	do	do	(2)	165	.85	(2)	(2)	10.0	4
7189	do	do	do	(2)	168	.78	4.2	9.5	13.0	9
7190	do	do	do	(2)	165	1.38	4.3	9.3	12.4	10
7292	do	do	do	(2)	165	.90	3.6	11.1	15.3	9
7293	do	do	Fossiliferous limestone	(2)	168	.61	7.0	5.7	13.3	3
7545	Mt. Sterling (6 miles south of)	do	Siliceous limestone	(2)	165	1.26	3.9	10.3	13.0	9
7546	do	do	Argillaceous limestone	(2)	168	1.03	6.3	6.3	8.5	6
1225	Narrows	Ohio	Limestone	(2)	168	.42	3.7	10.8	15.0	10
17073	Livingston	Rockcastle	Siliceous dolomite	(2)	170	2.20	3.4	11.8	13.0	13
16313	Bluestone	Rowan	Sandstone	(2)	147	5.09	5.8	6.9	(2)	11
19599	Morehead	do	Feldspathic sandstone	(2)	147	5.22	5.4	7.4	3.3	7
14949	Jamestown	Russell	Fossiliferous limestone	(2)	166	1.19	6.0	6.7	18.3	10
16416	Elkton	Todd	Limestone	(2)	163	.63	5.2	7.7	(2)	7
3163	Cerulean (1½ miles from)	Trigg	do	(2)	168	.65	4.4	9.1	15.5	5
10451	Cerulean (near)	do	Argillaceous limestone	(2)	167	.45	4.7	8.5	14.2	6
9829	(1)	(1)	Limestone	(2)	165	1.31	(2)	(2)	13.7	6
9830	(1)	(1)	Argillaceous limestone	(2)	165	.82	(2)	(2)	15.5	10

LOUISIANA

5634-A	Shreveport	Caddo	Ferruginous sandstone	(2)	159	3.31	13.8	2.9	4.8	4
5634-B	do	do	do	(2)	168	3.06	19.6	2.0	13.8	8
5634-C	do	do	do	(2)	172	1.54	12.1	3.3	10.7	7
7695	(1)	do	Limonite ore	(2)	209	4.24	18.2	2.2	(2)	(2)
11241	New Orleans	Orleans	Argillaceous sandstone	(2)	128	11.35	19.1	2.1	14.7	6
4316	De Lode Bluffs (near)	Rapides	Quartzite	(2)	147	1.53	3.8	10.5	15.3	8
18145	Florien	Sabine	Sandstone	(2)	135	6.29	7.0	5.7	16.3	9
6664	Many	do	Siliceous limestone	(2)	165	2.20	4.7	8.5	12.1	10
7024	Kentwood	Tangipohoa	Ferruginous sandstone	(2)	153	3.65	30.3	1.3	14.7	2
25173	Atlanta (near)	Winn	Siliceous limestone	(2)	161	1.70	3.7	10.8	18.0	9
3736	Winnfield	do	Marble	(2)	168	.28	7.2	5.6	10.7	5
24854	do	do	do	(2)	165	.48	10.4	3.8	9.0	3
27523	do	do	do	(2)	167	.37	9.0	4.4	12.0	5
20927	(1)	(1)	Granite	28,810	163	.47	4.0	10.0	19.3	8

MAINE

11483	Auburn	Androscoggin	Biotite gneiss	(2)	170	0.58	4.4	9.1	18.0	8
6467	Rumford Junction	do	do	(2)	168	.45	5.7	7.0	17.8	7
6469	(1)	do	do	(1)	172	.49	5.4	7.4	(2)	(2)
7574	Brunswick	Cumberland	Biotite gneiss	(2)	172	.31	6.9	5.8	18.0	7
7575	do	do	Altered granite	(2)	162	.47	7.0	5.7	18.1	6
7576	do	do	Granite	(2)	162	.45	3.9	10.3	18.7	7
7569	Cumberland Center	do	Biotite granite	(2)	168	.37	3.8	10.5	17.8	10
7649	do	do	Altered diabase	(2)	184	.45	2.5	15.7	18.4	18
8031	do	do	Biotite gneiss	(2)	172	.93	10.7	3.7	16.2	5
3433	Deering Junction	do	Granite gneiss	(2)	165	.36	3.5	11.4	18.7	11
7566	Falmouth	do	Granite	(2)	162	.41	4.9	8.2	18.9	7
7567	do	do	Biotite granite	(2)	172	.29	3.1	12.9	17.9	14
7568	do	do	Granite	(2)	162	.42	4.3	9.3	18.7	9
7577	do	do	Diabase	(2)	187	.27	3.0	13.3	19.0	24
7570	Freeport	do	Granite	(2)	165	.31	3.4	11.8	18.6	14
7571	do	do	do	(2)	162	.29	4.5	8.9	18.8	8
7572	do	do	Micaceous quartzite	(2)	168	.32	6.0	6.7	18.1	7
7573	do	do	Biotite gneiss	(2)	168	.64	6.2	6.5	17.7	7
2310	Harpswell Center (1 mile south of)	do	Diabase	(2)	187	.37	2.1	19.0	18.4	30
2235	Portland	do	Quartzite schist	(2)	172	.27	2.6	15.4	17.7	14
2958	do	do	Gneiss	(2)	165	.65	(2)	(2)	17.8	12
4411	do	do	do	(2)	168	.63	3.5	11.4	17.3	12
5310	do	do	Basalt	(2)	184	.22	3.0	13.3	18.1	29
7552	do	do	Altered diabase	(2)	178	.79	3.4	11.8	16.6	11
7612	do	do	Amphibole quartzite	(2)	172	.27	2.5	16.0	18.4	10
12755	do	do	Sericite schist	(2)	170	.18	4.1	9.8	17.3	14
12756	do	do	Granite	(2)	166	.24	3.8	10.5	18.0	10
2233	Standish	do	Biotite schist	(2)	172	.39	4.0	10.0	10.8	7
5766	Westbrook	do	do	(2)	172	.32	4.3	9.3	17.0	7
24349	do	do	Schistose quartzite	(2)	165	.94	6.0	6.7	18.3	4

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MAINE—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
5587	Yarmouth	Cumberland	Biotite gneiss	(2)	172	0.17	4.0	10.0	18.7	10
6990	do	do	Altered diabase porphyry	(2)	184	.03	2.4	16.7	16.8	25
7578	do	do	Granite	(2)	165	.56	6.3	6.3	18.8	6
8505	do	do	do	(2)	165	.33	3.4	11.8	19.0	6
7607	(1)	do	Altered diabase	(2)	181	.15	3.6	11.1	17.7	12
2313	North Jay	Franklin	Granite	(2)	165	.39	2.3	17.4	(2)	(2)
10219	do	do	do	21,260	164	.84	2.7	14.8	19.3	7
11416	do	do	Biotite granite	25,090	(2)	(2)	(2)	(2)	17.3	7
12283	do	do	Granite	(2)	163	.69	4.4	9.1	19.0	11
27373	do	do	do	(2)	165	.54	2.8	14.3	18.7	10
10988	McKinley (1 mile southeast of)	Hancock	do	28,650	165	.21	(2)	(2)	19.3	18
10989	do	do	do	26,500	163	.31	(2)	(2)	18.7	13
10990	do	do	do	32,450	164	.42	(2)	(2)	19.3	16
9997	Mount Desert	do	do	19,780	165	.21	3.4	11.8	19.7	9
10233	do	do	do	19,220	162	.90	4.1	9.8	18.7	8
10234	do	do	do	24,700	160	.67	3.2	12.5	18.7	12
13862	do	do	do	(2)	(2)	(2)	3.7	10.8	18.7	10
16304	do	do	do	(2)	164	.51	3.3	12.1	17.3	12
2303	South Brooksville	do	Altered rhyolite	(2)	175	.77	3.3	12.1	18.1	9
2304	do	do	Altered andesite	(2)	184	.22	2.1	19.0	16.5	15
24119	Sullivan	do	Granite	29,900	165	.48	5.4	7.4	18.7	10
7438	Swans Island	do	Biotite granite	(2)	162	.45	5.0	8.0	18.8	8
17439	do	do	do	36,530	163	.55	3.4	11.8	18.7	13
2312	Hallowell	Kennebec	Granite	(2)	159	1.72	3.1	12.9	18.7	9
11327	do	do	do	25,380	162	.78	3.0	13.3	18.7	8
11486	do	do	do	27,760	163	.72	3.2	12.5	18.7	7
21117	do	do	do	27,725	164	.58	3.7	10.8	18.3	8
22799	do	do	Muscovite granite	26,775	165	.64	3.3	12.1	18.7	9
11408	Litchfield	do	Biotite gneiss	(2)	168	.40	4.0	10.0	19.3	6
11468	Winslow	do	Mica schist	(2)	174	.47	4.1	9.8	15.0	8
5843	(1)	do	Biotite granite	(2)	168	.30	5.0	8.0	19.1	8
5844	(1)	do	do	(2)	165	.40	10.0	4.0	18.4	5
2302	Camden	Knox	Feldspathic quartzite	(2)	168	.16	2.7	14.8	18.8	9
11215	do	do	Biotite quartzite	18,040	172	.22	3.4	11.8	16.7	11
17022	Clark Island	do	Biotite granite	24,915	168	.63	2.6	15.4	19.0	11
17023	do	do	do	22,315	168	.65	2.6	15.4	18.7	12
17024	do	do	do	30,825	169	.53	2.5	16.0	18.0	11
27559	do	do	do	22,240	168	.30	2.8	14.3	18.7	9
2308	Longcove	do	Hornblende gabbro	(2)	187	.28	2.8	14.3	17.8	12

5915	do	do	Biotite granite	(2)	165	.45	2.2	18.2	18.7	12
7507	do	do	Granite	(2)	165	.23	2.8	14.3	19.3	9
9996	do	do	do	17,540	168	.22	3.3	12.1	19.2	10
10249	do	do	Biotite granite	22,500	165	.86	3.0	13.3	19.3	13
10250	do	do	Granite	22,330	166	.82	3.5	11.4	19.3	8
13868	do	do	Biotite granite	(2)	(2)	(2)	3.4	11.8	18.7	10
13869	do	do	do	(2)	(2)	(2)	3.3	12.1	18.7	10
2306	North Haven	do	Fragmental rhyolite	(2)	168	.50	3.2	12.5	18.0	7
2305	North Haven Island	do	Altered andesite	(2)	184	.41	2.7	14.8	17.6	12
784	Rockland Township	do	Hornblende quartzite	(2)	175	.12	2.6	15.4	(2)	(2)
9706	do	do	Marble	(2)	175	.40	4.3	9.3	17.0	4
2300	Rockland (2 miles southwest of)	do	Feldspathic quartzite	(2)	165	.54	2.6	15.4	18.8	20
2301	Rockland (near)	do	Marble	(2)	168	.36	5.6	7.1	10.5	5
53	Rockport	do	Limestone	(2)	(2)	(2)	4.9	8.2	(2)	(2)
54	do	do	do	(2)	(2)	(2)	4.5	8.9	(2)	(2)
55	do	do	Quartzite	(2)	(2)	(2)	2.7	14.8	(2)	(2)
123	do	do	Biotite schist	(2)	(2)	(2)	4.2	9.5	(2)	(2)
11411	do	do	Granite	31,580	(2)	(2)	(2)	(2)	18.0	8
8768	Saint George	do	do	22,800	(2)	(2)	(2)	(2)	(2)	9
9781	do	do	do	18,780	(2)	(2)	(2)	(2)	(2)	12
9865	do	do	do	17,150	(2)	(2)	(2)	(2)	18.8	9
11418	do	do	Biotite granite	25,180	(2)	(2)	(2)	(2)	18.0	10
13846	do	do	Granite	(2)	(2)	(2)	3.1	12.9	18.7	10
13866	do	do	Biotite granite	(2)	(2)	(2)	3.4	11.8	18.0	10
19144	do	do	do	(2)	165	.57	3.1	12.9	19.0	13
2307	Vinalhaven	do	Olivine diabase	(2)	187	.33	2.3	17.4	18.2	12
7435	do	do	Granite	(2)	165	.47	3.4	11.8	19.3	12
8745	do	do	Biotite granite	(2)	165	.39	2.9	13.8	18.8	10
8769	do	do	do	20,930	(2)	(2)	(2)	(2)	(2)	10
9445	do	do	do	21,220	165	.29	3.1	12.9	19.0	13
10019	do	do	do	21,650	165	.25	3.1	12.9	19.3	14
11414	do	do	do	32,090	(2)	(2)	(2)	(2)	19.3	11
13854	do	do	Granite	(2)	(2)	(2)	3.3	12.1	18.7	13
13855	do	do	Biotite granite	(2)	(2)	(2)	3.5	11.4	18.0	14
19212	do	do	do	33,485	165	.43	3.4	11.8	18.7	11
20946	do	do	do	34,450	163	.35	2.4	16.7	18.7	14
3866	(1)	do	Dolomitic limestone	(2)	178	.19	5.4	7.4	13.2	7
27513	Waldoboro	Lincoln	Granite	29,110	165	.46	2.8	14.3	18.7	14
11406	Bowdoinham	Sagadahoc	Biotite gneiss	(2)	165	.89	9.5	4.2	17.3	3
11421	do	do	Gneissoid granite	(2)	159	1.63	7.1	5.6	(2)	(2)
11422	do	do	Biotite gneiss	(2)	163	1.74	12.4	3.2	(2)	(2)
11404	Richmond	do	do	(2)	163	1.79	11.4	3.5	17.0	5
11405	do	do	Granite	(2)	163	.76	4.1	9.8	18.0	5
11407	do	do	Biotite gneiss	(2)	170	1.41	8.4	4.8	17.3	3
2311	Topsham	do	Pegmatite	(2)	165	.43	10.7	3.7	(2)	(2)
2309	Woolwich	do	Gneissoid granite	(2)	178	.37	4.1	9.8	18.8	8
7439	Frankfort	Waldo	Biotite granite	(2)	165	.27	5.2	7.7	18.8	6
2285	Eastport	Washington	Altered diabase	(2)	178	.67	2.0	20.0	18.2	20
866	Machias	do	Diabase	(2)	184	.35	2.9	13.8	(2)	(2)
2236	Machias (2 miles east of)	do	Altered diabase	(2)	181	.22	2.8	14.3	16.9	11
2237	Machias (8 miles south of)	do	do	(2)	181	.50	1.6	25.0	17.9	27

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MAINE—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
4228	Kennebunk	York	Diabase	(2)	187	0.42	1.8	22.2	18.8	37
2231	Kittery	do	Gabbro	(2)	178	1.03	3.2	12.5	17.8	11
2232	do	do	Quartzite schist	(2)	172	.49	2.3	17.4	16.5	18
4229	do	do	Calcareous sandstone	(2)	175	.21	3.4	11.8	18.0	22
1040	Ogunquit	do	Altered diabase	(2)	187	.04	2.3	17.4	18.5	36
2234	Saco	do	Quartzite	(2)	175	.27	2.5	16.0	18.5	53
2229	Saco (5 miles east of)	do	Diabase porphyry	(2)	184	.42	2.6	15.4	16.2	11
5724	Sanford	do	Hypersthene granite	(2)	181	.35	4.1	9.8	17.7	9
2230	Wells Beach	do	Gabbroitic diabase	(2)	184	.53	2.0	20.0	17.5	17
5906	York Harbor	do	Feldspathic quartzite	(2)	172	.16	(2)	(2)	19.2	58

MARYLAND

427	Cumberland	Allegany	Sandstone	(2)	123	9.43	8.2	4.9	(2)	(2)
429	do	do	Silica rock	(2)	168	2.00	11.7	3.4	(2)	(2)
428	do	do	Calcareous shale	(2)	168	1.90	16.2	2.5	(2)	(2)
430	do	do	Silica rock	(2)	168	1.70	13.4	3.0	(2)	(2)
4954	do	do	Limestone	(2)	168	.15	4.0	10.0	16.5	12
5611	Mount Savage Junction	do	Siliceous limestone	(2)	165	.13	3.0	13.3	17.5	23
11556	Bare Hills	Baltimore	Serpentine	(2)	161	1.02	7.7	5.2	12.3	5
2992	Big Gunpowder	do	Hornblende schist	(2)	190	.38	3.6	11.1	18.1	16
20558	Butler	do	Muscovite gneiss	(2)	168	.56	5.1	7.8	18.7	8
23050	do	do	Quartzite	(2)	167	.15	4.1	9.8	18.7	9
19028	Cockeysville (near)	do	Marble	(2)	163	.19	5.6	7.1	14.0	6
29224	do	do	do	(2)	169	.18	8.4	4.8	(2)	(2)
4104	Granite	do	Granite	(2)	168	.46	2.4	16.7	18.5	10
8351	do	do	Biotite granite	(2)	168	.33	3.0	13.3	18.7	9
21146	Loch Raven	do	Dolomitic marble	(2)	178	.32	7.4	5.4	11.7	4
5976	Loreley	do	Augite diorite	(2)	190	.19	2.4	16.7	17.8	10
25101	Phoenix	do	Gneissoid granite	(2)	173	.81	6.2	6.5	(2)	8
25102	do	do	Gneissoid granite (weathered).	(2)	164	2.58	25.6	1.6	(2)	5
11335	Raspeburg Station	do	Hornblende schist	(2)	186	.41	3.5	11.4	17.3	15
11336	do	do	Hornblende gneiss	(2)	165	.89	6.7	6.0	15.0	7
2206	Ruxton	do	Biotite gneiss	(2)	175	.45	3.8	10.5	16.3	8
20116	Sparks	do	do	(2)	169	1.24	6.9	5.8	18.3	5

20167	do	do	Biotite granite	(2)	170	1.26	8.4	4.8	17.0	6
1328	do	do	Biotite gneiss	(2)	178	.25	4.0	10.0	17.7	11
6867	Texas	do	Siliceous marble	(2)	168	.26	27.0	1.5	7.5	3
6868	do	do	do	(2)	178	.19	18.8	2.1	4.5	2
6869	do	do	do	(2)	172	.06	10.5	3.8	12.3	3
18639	do	do	Marble	(2)	172	.22	7.6	5.3	14.0	6
14646	Towson	do	do	(2)	175	.38	9.9	4.0	11.0	4
15387	do	do	do	(2)	172	.30	5.4	7.4	(2)	(2)
19508	do	do	Micaceous marble	(2)	175	.21	4.2	9.5	16.0	8
20114	do	do	Gneissoid granite	(2)	165	.57	4.9	8.2	19.3	10
3187	White Hall (near)	do	Altered peridotite	(2)	165	.73	3.0	13.3	15.0	12
4105	Woodstock	do	Granite	(2)	165	.32	4.5	8.9	18.7	10
873	(1)	do	Diabase	(2)	(2)	(2)	2.2	18.2	(2)	12
1613	(1)	do	Augite diorite	(2)	196	.31	3.6	11.1	18.3	23
2544	(1)	do	Hornblende schist	(2)	196	.27	1.9	21.1	17.3	15
3062	(1)	do	Dolomitic marble	(2)	178	.20	6.3	6.3	11.0	5
28786	(1)	do	Serpentine	(2)	168	.08	4.5	8.9	14.7	7
1339	Baltimore		Granite gneiss	(2)	165	.32	2.9	13.8	18.2	16
20319	do		Feldspathic quartzite	(2)	169	.21	(2)	(2)	18.7	12
7291	Conowingo	Cecil	Hypersthene diabase	(2)	187	.49	2.6	15.4	18.4	8
3459	Port Deposit	do	Granite gneiss	(2)	168	.17	2.0	20.0	18.7	10
4673	do	do	Hornblende gneiss	(2)	190	.14	3.5	11.4	(2)	(2)
6671	do	do	Quartzite	(2)	178	.30	2.0	20.0	18.9	24
8420	do	do	Hornblende schist	(2)	171	.26	2.2	18.2	19.2	9
12171	do	do	Granite gneiss	(2)	168	.45	(2)	(2)	19.3	12
12552	do	do	Hornblende gneiss	(2)	182	.18	2.3	17.4	10.0	(2)
12802	do	do	Hornblende-biotite schist	(2)	169	.01	2.8	14.3	17.3	17
20318	do	do	Biotite gneiss	(2)	163	.57	(2)	(2)	18.3	9
15161	Rising Sun (near)	do	Hypersthene granite	(2)	183	2.02	(2)	(2)	18.0	10
439	Frederick (near)	Frederick	Argillaceous limestone	(2)	162	.19	5.9	6.8	(2)	(2)
487	do	do	Limestone	(2)	168	.13	6.0	6.7	(2)	(2)
830	do	do	Siliceous limestone	(2)	172	.09	2.6	15.4	(2)	(2)
1314	do	do	Limestone	(2)	172	.19	2.8	14.3	14.6	12
3836	do	do	do	(2)	168	.33	3.3	12.1	(2)	(2)
4884	do	do	do	(2)	175	.08	4.1	9.8	10.7	16
5688	do	do	Dolomite	(2)	175	.20	3.1	12.9	16.3	15
10105	do	do	Limestone	(2)	(2)	(2)	3.0	13.3	16.0	5
16196	do	do	Siliceous limestone	(2)	169	.25	2.9	13.8	16.7	11
22767	do	do	do	(2)	169	.17	2.5	16.0	17.7	17
24409	do	do	Siliceous dolomite	(2)	(2)	(2)	4.2	9.5	(2)	(2)
27414	do	do	Siliceous limestone	(2)	171	.03	(2)	(2)	18.7	20
27415	do	do	Limestone	(2)	177	.05	(2)	(2)	14.7	3
27416	do	do	do	(2)	171	.15	(2)	(2)	13.3	5
12930	Lime Kiln	do	Argillaceous limestone	(2)	172	.14	2.6	15.4	(2)	(2)
19692	do	do	Siliceous limestone	(2)	170	.11	4.1	9.8	16.0	6
28685	do	do	Quartzite	(2)	170	.46	2.4	16.7	18.0	26
5348	Point of Rocks (near)	do	Diabase	(2)	190	.11	1.9	21.1	18.6	46
2473	do	do	Limestone	(2)	175	.21	3.9	10.3	15.7	7
2474	do	do	Diabase	(2)	187	.40	1.1	36.4	18.8	21
343	(1)	do	Dolomite	(2)	178	.25	4.5	8.9	(2)	(2)

[1] Exact locations not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MARYLAND—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
3134	Bloomington	Garrett	Feldspathic sandstone	(2)	162	0.74	3.7	10.8	18.8	9
2227	(1)	do	Limestone	(2)	168	.43	3.7	10.8	15.3	4
5761	(1)	do	Calcareous sandstone	(2)	165	.62	2.8	14.3	15.8	11
12360	Bel Air	Harford	Altered gabbro	(2)	189	.18	2.6	15.4	18.0	19
14548	do	do	Amphibolite	(2)	190	.17	2.8	14.3	18.7	21
2991	Havre de Grace	do	Hornblende schist	(2)	181	.17	2.0	20.0	18.4	20
3407	do	do	Diorite	(2)	181	.58	2.1	19.0	18.9	27
3408	do	do	Gneissoid granite	(2)	165	1.26	4.2	9.5	18.5	12
3409	do	do	Quartz hornblende schist	(2)	172	.38	2.2	18.2	18.6	19
3441	do	do	Granite gneiss	(2)	168	.25	3.0	13.3	18.6	16
3442	do	do	Basic diorite	(2)	193	.35	2.5	16.0	18.5	23
3443	do	do	Hornblende schist	(2)	181	.11	3.1	12.9	17.3	34
4211	do	do	Granite gneiss	(2)	168	.10	3.2	12.5	18.8	12
4212	do	do	Hornblende schist	(2)	184	.61	3.3	12.1	18.7	30
4418	do	do	Schist	(2)	175	.11	2.9	13.8	18.2	44
5293	do	do	Altered granite	(2)	168	.23	2.0	20.0	18.6	12
5294	do	do	Hornblende gneiss	(2)	184	.14	1.4	28.6	18.8	32
5694	do	do	Gneissoid granite	34,410	168	.27	2.3	17.4	17.8	14
5695	do	do	Sericite gneiss	20,090	168	.26	2.6	15.4	19.0	9
5696	do	do	Gneissoid granite	21,670	168	.48	1.7	23.5	18.8	17
5697	do	do	Amphibolite	34,380	193	.16	1.5	26.7	18.7	40
5698	do	do	Gneissoid granite	35,210	168	.29	2.0	20.0	18.6	9
5699	do	do	do	22,190	168	.22	2.2	18.2	18.3	10
6623	do	do	Quartz hornblende schist	(2)	172	.38	2.7	14.8	(2)	(2)
6959	do	do	Gneissoid granite	(2)	168	.21	2.4	16.7	18.8	16
12164	do	do	Granite	(2)	166	.27	3.0	13.3	18.7	10
12165	do	do	Amphibolite	(2)	187	.11	4.0	10.0	16.7	12
20191	do	do	Hornblende schist	(2)	185	.18	2.9	13.8	17.7	16
21106	do	do	Hornblende mica schist	34,820	183	.17	3.1	12.9	18.3	16
21107	do	do	Biotite gneiss	34,090	168	.36	2.2	18.2	18.3	14
13669	Kingsville (near)	do	Amphibolite	(2)	191	.41	4.0	10.0	17.3	10
2668	(1)	do	Hornblende schist	(2)	184	.55	3.3	12.1	17.8	19
8642	Ellicott	Howard	Biotite gneiss	(2)	(2)	(2)	4.5	8.9	17.5	4
4132	Guilford	do	Granite	(2)	165	.31	2.8	14.3	19.0	8
10021	North Laurel	do	Amphibolite	(2)	200	.46	3.5	11.4	17.7	8
829	Savage	do	do	(2)	190	.04	1.6	25.0	(2)	(2)
20316	do	do	do	(2)	190	.48	(2)	(2)	17.7	14
20388	do	do	do	(2)	190	.23	1.5	26.7	19.3	30

21282	do	do	do	(2)	193	.02	2.2	18.2	18.0	18
4168	Savage (½ mile north of)	do	Hornblende schist	(2)	190	.15	1.4	28.6	18.8	37
1319	(1)	do	do	(2)	193	.20	1.8	22.2	18.4	26
1329	(1)	do	Granite	(2)	165	.24	3.0	13.3	(2)	(2)
8587	(1)	do	Amphibolite	(2)	193	.21	2.3	17.4	18.7	16
17458	(1)	do	Hornblende gneiss	(2)	167	.78	4.6	8.7	17.3	8
12607	Bethesda (near)	Montgomery	Mica gneiss	(2)	168	.33	3.4	11.8	18.7	9
4908	Clopper	do	Altered gneiss	(2)	190	.38	5.5	7.3	16.8	12
3870	Derwood	do	Diorite gneiss	(2)	187	.28	5.7	7.0	17.6	7
5299	do	do	Mica schist	(2)	175	.28	3.3	12.1	17.3	14
5300	do	do	Quartz mica schist	(2)	172	.32	3.1	12.9	17.8	17
363	Dickerson	do	Diabase	(2)	187	.14	2.8	14.3	(2)	(2)
1336	do	do	do	(2)	181	.56	2.2	18.2	(2)	(2)
1626	do	do	do	(2)	187	.51	1.8	22.2	(2)	(2)
2494	do	do	do	(2)	187	.39	2.0	20.0	18.5	25
7316	do	do	do	(2)	187	.45	1.9	21.1	19.2	28
10101	do	do	do	(2)	(2)	(2)	1.4	28.6	18.5	21
12766	do	do	do	(2)	181	.12	2.6	15.4	(2)	(2)
14264	do	do	do	(2)	187	.24	(2)	(2)	18.7	20
3837	Gaithersburg	do	Serpentine	(2)	165	.44	3.8	10.5	18.6	16
6009	do	do	Feldspathic quartzite	(2)	172	.04	5.7	7.0	18.1	15
5722	Germantown	do	Altered diabase	(2)	187	.49	1.8	22.2	18.0	18
5723	do	do	Quartz	(2)	165	.05	7.3	5.5	(2)	(2)
8289	Glen Echo (near)	do	Granite	(2)	168	.71	2.8	14.3	18.7	9
8290	do	do	Weathered granite	(2)	168	.29	3.6	11.1	19.0	7
11152	Halpine	do	Epidote hornblende gneiss	(2)	198	.65	3.1	12.9	16.0	11
11153	do	do	Biotite granite	(2)	171	.42	3.1	12.9	18.7	13
2359	Laytonsville	do	Hornblende serpentine	(2)	165	.89	2.8	14.3	18.6	21
8622	Potomac	do	Chlorite sericite gneiss	(2)	168	.50	(2)	(2)	18.7	4
26773	do	do	Sericite gneiss	(2)	170	1.64	11.3	3.5	16.7	3
26774	do	do	do	(2)	169	1.94	13.3	3.0	16.7	3
4936	Rockville	do	Serpentine	(2)	168	.19	2.5	16.0	18.4	17
5625	do	do	Sericite gneiss	(2)	181	.25	6.1	6.6	17.6	12
6957	do	do	Chloritic gneiss	(2)	175	.16	7.0	5.7	16.6	7
6953	Rockville (near)	do	Quartz	(2)	165	.20	10.9	3.7	(2)	(2)
2844	Seneca	do	Sandstone	(2)	168	1.03	4.8	8.3	11.8	11
2845	do	do	Ferruginous sandstone	(2)	159	1.83	(2)	(2)	15.8	6
5529	do	do	Mica schist	(2)	168	1.67	12.2	3.3	(2)	(2)
8136	Seneca (near)	do	Ferruginous sandstone	(2)	156	.13	4.8	8.3	15.5	5
8137	do	do	Feldspathic sandstone	(2)	159	.30	3.1	12.9	16.3	7
2360	Washington Grove	do	Talc schist	(2)	165	.61	8.2	4.9	.9	3
2454	do	do	Quartz	(2)	165	.08	14.9	2.7	(2)	(2)
3405	do	do	Serpentine	(2)	165	.50	3.2	12.5	18.3	14
1157	(1)	do	Gabbro	(2)	193	.15	2.3	17.4	18.7	22
2011	(1)	do	Muscovite granite	(2)	165	1.25	3.2	12.5	16.4	10
2900	(1)	do	Diabase	(2)	190	.36	2.0	20.0	18.5	24
3389	(1)	do	Granite gneiss	(2)	178	.37	(2)	(2)	17.7	7
3390	(1)	do	do	(2)	175	.23	(2)	(2)	17.7	8
3391	(1)	do	Sericite gneiss	(2)	175	1.02	(2)	(2)	14.9	6
3809	(1)	do	Gneiss	(2)	168	.34	4.2	9.5	17.8	15
3820	(1)	do	do	(2)	178	.19	6.3	6.3	17.8	8

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MARYLAND—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
3821	(1)	Montgomery	Quartz gneiss	(2)	178	0.18	3.6	11.1	17.3	7
8583	(1)	do	Diabase	(2)	187	.20	1.8	22.2	18.3	44
8584	(1)	do	Dolomite	(2)	168	.11	5.8	6.9	17.3	9
3217	Laurel (near)	Prince Georges	Hornblende schist	(2)	190	.26	1.3	30.8	18.3	20
13728	(1)	do	Diabase	(2)	(2)	(2)	1.6	25.0	(2)	(2)
7921	Easton	Talbot	Dolomitic marble	(2)	(2)	(2)	3.9	10.3	(2)	(2)
8092	do	do	Hornblende granite gneiss	(2)	168	.22	2.7	14.8	18.8	7
11342	Cavetown	Washington	Marble	(2)	171	.29	3.6	11.1	16.0	9
5826	Hagerstown	do	Limestone	(2)	168	.18	5.2	7.7	16.7	13
7505	Hancock	do	Ferruginous sandstone	(2)	172	.62	2.7	14.8	18.2	18
8445	Security	do	Limestone	(2)	168	.68	5.7	7.0	16.7	6
8446	do	do	do	(2)	168	.43	6.0	6.7	15.9	4
14424	Weverton (near)	do	Quartzite	(2)	167	.31	3.1	12.9	(2)	(2)

MASSACHUSETTS

1008	Becket	Berkshire	Gneissoid granite	(2)	168	0.23	1.6	25.0	17.6	14
119	Florida	do	(3)	(2)	(2)	(2)	19.8	2.0	(2)	(2)
47	Great Barrington	do	Limestone	(2)	(2)	(2)	4.2	9.5	(2)	(2)
80	do	do	Quartzite	(2)	(2)	(2)	2.7	14.8	(2)	(2)
6118	do	do	Marble	(2)	178	.13	5.4	7.4	15.3	5
10016	do	do	do	(2)	175	.37	5.6	7.1	15.3	4
41	Lee	do	Schist	(2)	(2)	(2)	3.3	12.1	(2)	(2)
51	do	do	Hornblende gneiss	(2)	(2)	(2)	3.5	11.4	(2)	(2)
101	do	do	Marble	(2)	172	(2)	14.0	2.9	(2)	(2)
121	do	do	Quartzite	(2)	(2)	(2)	3.4	11.8	(2)	(2)
11508	do	do	Dolomitic marble	(2)	179	.31	7.2	5.6	11.2	2
10	Lenox	do	Mica schist	(2)	178	(2)	5.0	8.0	(2)	(2)
2928	do	do	Sericite schist	(2)	187	.19	4.1	9.8	16.8	8
298	North Adams	do	Limestone	(2)	(2)	(2)	4.7	8.5	(2)	(2)
8287	do	do	Biotite gneiss	(2)	187	.68	7.7	5.2	18.3	6
8440	do	do	Quartzite	(2)	165	.18	3.5	11.4	(2)	(2)
10288	Otis	do	Granite	18,260	166	.71	2.6	15.4	18.0	9
69	Pittsfield	do	Mica schist	(2)	172	(2)	4.1	9.8	(2)	(2)
102	do	do	Limestone	(2)	175	(2)	4.3	9.3	(2)	(2)
24593	Richmond Summit	do	Dolomitic marble	28,360	176	.26	3.4	11.8	16.7	7

15457	West Pittsfield	do	Marble	(2)	172	.65	5.1	7.8	13.3	7
12473	Windsor	do	Quartzite	(2)	164	.24	3.9	10.3	18.7	12
104	(1)	do	do	(2)	162	(2)	3.4	11.8	(2)	(2)
205	Acushnet	Bristol	(2)	(2)	(2)	(2)	4.3	9.3	(2)	(2)
11017	do	do	Chlorite gneiss	(2)	167	.44	2.4	16.7	19.0	17
9770	Fall River	do	Biotite gneiss	(2)	178	.27	2.7	14.8	18.2	17
9485	New Bedford	do	Chlorite gneiss	(2)	168	.62	2.5	16.0	18.2	8
77	North Dartmouth	do	Granite	(2)	(2)	(2)	2.7	14.8	(2)	(2)
31	North Westport	do	Hornblende granite	(2)	(2)	(2)	2.8	14.3	(2)	(2)
10247	Seekonk	do	Feldspathic sandstone	(2)	167	.76	4.0	10.0	18.7	12
15178	do	do	do	(2)	165	1.20	4.3	9.3	18.7	14
15179	do	do	Siliceous slate	(2)	164	1.84	3.9	10.3	(2)	(2)
445	Taunton	do	Granite	(2)	168	1.59	4.1	9.8	(2)	(2)
62	Beverly	Essex	Hornblende granite	(2)	172	(2)	2.8	14.3	(2)	(2)
74	do	do	Granite	(2)	(2)	(2)	1.9	21.1	(2)	(2)
89	do	do	Hornblende granite	(2)	(2)	(2)	2.3	17.4	(2)	(2)
117	do	do	Diorite	(2)	(2)	(2)	2.4	16.7	(2)	(2)
1945	do	do	do	(2)	187	.35	2.8	14.3	17.3	16
11413	do	do	Hornblende granite	28,580	(2)	(2)	(2)	(2)	19.3	9
12289A	do	do	Biotite syenite	(2)	181	.87	(2)	(2)	17.0	24
12289B	do	do	Hornblende granite	(2)	181	.87	(2)	(2)	19.0	15
1550	Beverly Farms	do	do	(2)	168	.39	1.6	25.0	18.9	31
5825	Clifton Dale	do	Altered diabase	(2)	181	.32	2.0	20.0	17.6	21
20878	Danvers	do	Diorite	(2)	186	.35	2.8	14.3	18.3	10
19958	Essex	do	Granite	(2)	163	.51	4.8	8.3	18.7	8
26	Gloucester	do	Hornblende granite	(2)	165	(2)	3.6	11.1	(2)	(2)
30	do	do	Augite syenite	(2)	172	(2)	3.2	12.5	(2)	(2)
1752	do	do	Granite	(2)	147	2.77	2.0	20.0	18.7	19
9649	do	do	do	19,580	165	.32	3.7	10.8	19.7	10
9650	do	do	do	18,125	165	.35	4.4	9.1	19.7	10
25172	do	do	Biotite granite	30,410	166	.15	4.0	10.0	18.7	10
27531	do	do	Granite	42,180	165	.25	3.2	12.5	18.7	24
3543	Haverhill	do	Hornblende mica schist	(2)	172	.51	3.2	12.5	18.4	17
61	Ipswich	do	Altered diabase	(2)	(2)	(2)	1.7	23.5	(2)	(2)
116	do	do	Hornblende granite	(2)	(2)	(2)	2.2	18.2	(2)	(2)
19960	do	do	Altered diabase	(2)	180	.38	3.9	10.3	18.0	6
65	Lawrence	do	Siliceous limestone	(2)	172	(2)	2.3	17.4	(2)	(2)
222	do	do	do	(2)	(2)	(2)	2.1	19.0	(2)	(2)
1190	do	do	Diabase	(2)	184	.57	(2)	(2)	17.9	24
1191	do	do	Gneissoid granite	(2)	162	.72	(2)	(2)	19.1	21
1192	do	do	Granite gneiss	(2)	165	.38	(2)	(2)	19.0	12
16	Lynn	do	Diabase	(2)	190	(2)	2.0	20.0	(2)	(2)
21	do	do	do	(2)	190	(2)	2.0	20.0	(2)	(2)
24	do	do	Felsite	(2)	165	(2)	2.7	14.8	(2)	(2)
27	do	do	do	(2)	165	(2)	3.3	12.1	(2)	(2)
29	do	do	Diabase	(2)	187	(2)	2.2	18.2	(2)	(2)
11245	do	do	Rhyolite	(2)	165	.28	3.4	11.8	(2)	(2)
18930	Marblehead	do	Diorite	(2)	179	.25	2.5	16.0	18.0	20
329	Merrimac	do	Quartzite	(2)	(2)	(2)	3.1	12.9	(2)	(2)
181	Methuen	do	do	(2)	(2)	(2)	2.9	13.8	(2)	(2)
226	do	do	do	(2)	(2)	(2)	2.1	19.0	(2)	(2)

[1] Exact location not known.

[2] Test not made.

[3] Probably steatite (soapstone).

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MASSACHUSETTS—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
31	Newbury	Essex	Olivine diabase	(2)	184	(2)	2.0	20.0	(2)	(2)
35	do	do	Quartz diorite	(2)	(2)	(2)	2.8	14.3	(2)	(2)
20812	do	do	Aplitic diorite	(2)	174	.64	3.0	13.3	18.7	13
37	Newburyport	do	Diabase	(2)	(2)	(2)	2.5	16.0	(2)	(2)
12256	do	do	Granodiorite	(2)	175	.34	3.6	11.1	18.1	10
20379	do	do	Sericite hornblende schist	(2)	190	.19	3.1	12.9	18.3	12
20380	do	do	Amphibolite	(2)	174	.23	2.4	16.7	18.7	21
24600	North Andover	do	Aplitic granite	29,560	166	.54	3.1	12.9	18.3	9
1351	Peabody	do	Augite diorite	(2)	184	.18	3.0	13.3	16.9	15
1375	do	do	Gabbro (altered)	(2)	184	.23	2.9	13.8	(2)	(2)
4012	do	do	Hornblende granite	(2)	165	.05	4.5	8.9	19.0	8
13566	do	do	Altered diorite	(2)	181	.20	2.9	13.8	18.0	16
34	Rockport	do	Hornblende granite	(2)	165	(2)	3.2	12.5	(2)	(2)
6890	do	do	Biotite granite	28,450	165	.22	3.3	12.1	19.0	12
6891	do	do	do	22,375	165	.17	4.0	10.0	18.9	10
6892	do	do	do	23,610	165	.15	4.0	10.0	18.8	10
6893	do	do	do	22,670	165	.24	3.8	10.5	18.8	10
6894	do	do	do	21,600	165	.29	3.7	10.8	18.7	9
8796	do	do	do	23,830	(2)	(2)	(2)	(2)	(2)	13
9651	do	do	Granite	22,385	165	.33	4.9	8.2	19.3	7
9652	do	do	do	18,780	165	.21	3.6	11.1	19.3	11
13852	do	do	do	(2)	(2)	(2)	3.6	11.1	19.3	11
13853	do	do	do	(2)	(2)	(2)	3.2	12.5	18.7	11
15174	do	do	do	34,200	(2)	(2)	(2)	(2)	(2)	11
15175	do	do	do	31,225	(2)	(2)	(2)	(2)	(2)	10
15176	do	do	do	24,275	(2)	(2)	(2)	(2)	(2)	8
15177	do	do	do	32,125	(2)	(2)	(2)	(2)	(2)	11
19959	do	do	do	(2)	163	.40	3.8	10.5	18.3	7
27530	do	do	do	26,700	162	.34	4.0	10.0	18.7	16
97	Rowley	do	Felsite	(2)	(2)	(2)	3.3	12.1	(2)	(2)
20556	do	do	Ferruginous chert	(2)	163	.50	4.9	8.2	18.7	11
1	Salem	do	Augite diorite	(2)	(2)	(2)	2.6	15.4	(2)	(2)
115	do	do	Augite syenite	(2)	(2)	(2)	2.8	14.3	(2)	(2)
312	do	do	Diabase	(2)	(2)	(2)	4.5	8.9	(2)	(2)
315	do	do	do	(2)	(2)	(2)	3.1	12.9	(2)	(2)
611	do	do	Augite diorite	(2)	184	.33	2.7	14.8	(2)	(2)
2648	do	do	Altered syenite	(2)	187	.23	2.2	18.2	17.3	8
33	Salisbury	do	Comptonite	(2)	175	(2)	2.4	16.7	(2)	(2)

15	Saugus	do	Hornblende granite	(2)	(2)	(2)	4.5	8.9	(2)	(2)
22	do	do	Diabase	(2)	185	(2)	2.5	16.0	(2)	(2)
25	do	do	do	(2)	187	(2)	2.5	16.0	(2)	(2)
28	do	do	do	(2)	190	(2)	2.2	18.2	(2)	(2)
32	do	do	do	(2)	190	(2)	1.9	21.1	(2)	(2)
2297	Swampscott	do	Augite syenite	(2)	190	.28	3.1	12.9	17.8	14
20434	do	do	do	(2)	185	.18	2.5	16.0	17.7	17
20435	do	do	Porphyritic diabase	(2)	186	.49	2.7	14.8	18.0	18
20989	Topsfield	do	Altered diorite	(2)	172	.67	4.1	9.8	17.7	9
11268	(1)	do	Biotite granite	(2)	170	.72	3.1	12.9	18.3	10
14987	(1)	Essex	Rhyolite	(2)	166	.10	3.1	12.9	19.3	15
50	Buckland	Franklin	Hornblende gneiss	(2)	(2)	(2)	5.0	8.0	(2)	(2)
52	do	do	Augite mica schist	(2)	(2)	(2)	3.4	11.8	(2)	(2)
76	Deerfield	do	Diabase	(2)	(2)	(2)	1.4	28.6	(2)	(2)
268	do	do	do	(2)	(2)	(2)	1.4	28.6	(2)	(2)
18545	do	do	do	(2)	184	.64	1.9	21.1	17.7	31
19693	do	do	Altered diabase	(2)	178	.18	1.7	23.5	18.3	32
12220	Greenfield	do	do	(2)	185	.33	(2)	(2)	18.0	30
21774	do	do	Diabase	(2)	(2)	(2)	2.4	16.7	(2)	(2)
39	Orange	do	Hornblende granite	(2)	(2)	(2)	4.1	9.8	(2)	(2)
211	do	do	Hornblende gneiss	(2)	(2)	(2)	3.9	10.3	(2)	(2)
44	Chester	Hampden	Schist	(2)	(2)	(2)	3.3	12.1	(2)	(2)
46	do	do	Gneiss	(2)	(2)	(2)	3.8	10.5	(2)	(2)
66	Holyoke	do	Diabase	(2)	184	(2)	2.0	20.0	(2)	(2)
64	Monson	do	do	(2)	187	(2)	1.7	23.5	(2)	(2)
68	do	do	do	(2)	187	(2)	1.8	22.2	(2)	(2)
2423	Springfield	Hampden	Dolomite	(2)	175	.98	5.4	7.4	18.2	21
517	Westfield	do	Diabase	(2)	187	.50	1.3	30.8	(2)	(2)
5671	do	do	Altered diabase	(2)	187	.62	1.6	25.0	17.8	28
12215	do	do	Diabase	(2)	185	.14	2.2	18.2	18.0	26
12	West Springfield	do	Olivine diabase	(2)	184	(2)	2.6	15.4	(2)	(2)
67	do	do	Diabase	(2)	(2)	(2)	1.8	22.2	(2)	(2)
91	do	do	Olivine diabase	(2)	(2)	(2)	1.6	25.0	(2)	(2)
93	do	do	Diabase	(2)	(2)	(2)	1.9	21.1	(2)	(2)
78	Amherst	Hampshire	do	(2)	(2)	(2)	2.0	20.0	(2)	(2)
15156	Cummington	do	Mica schist	(2)	166	1.54	6.2	6.5	17.0	9
15158	do	do	do	(2)	131	.55	4.3	9.3	17.7	7
6572	Northampton	do	Altered biotite granite	(2)	172	.24	3.1	12.9	18.3	11
64	Ware	do	Diabase	(2)	187	(2)	1.7	23.5	(2)	(2)
15157	West Cummington	do	Chlorite-mica schist	(2)	165	1.35	7.7	5.2	17.3	6
8	(1)	do	Hornblende granite	(2)	172	(2)	3.7	10.8	(2)	(2)
60	Ashby	Middlesex	Granite	(2)	(2)	(2)	4.8	8.3	(2)	(2)
118	do	do	Granite gneiss	(2)	(2)	(2)	6.6	6.1	(2)	(2)
11795	Ayers	do	Calcareous quartzite	(2)	168	.85	6.0	6.7	11.0	12
11796	do	do	Granite	(2)	159	1.34	9.4	4.3	17.7	5
11871	do	do	Biotite gneiss	(2)	168	.30	4.9	8.2	19.0	7
12253	Chelmsford	do	Granite	(2)	162	.85	4.1	9.8	18.0	10
14890	do	do	Muscovite granite	(2)	163	.88	3.9	10.3	18.7	9
3539	Dracut	do	Biotite hornblende gneiss	(2)	178	.30	4.5	8.9	15.9	10
2610	Dunstable	do	Granite	(2)	165	.40	2.4	16.7	18.6	18
2	Everett	do	Olivine diabase	(2)	178	(2)	2.9	13.8	(2)	(2)

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MASSACHUSETTS—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1572	Everett	Middlesex	Augite diorite	(2)	175	0.95	(2)	(2)	18.6	22
1573	do	do	Altered diorite	(2)	172	.91	(2)	(2)	17.7	23
11720	Groton	do	Granite	22,540	162	.76	5.2	7.7	18.0	8
21020	Lowell	do	Hornblende quartzite	(2)	173	.38	2.7	14.8	19.0	24
125	Malden	do	Hornblende granite	(2)	(2)	(2)	2.8	14.3	(2)	(2)
270	do	do	Diabase	(2)	(2)	(2)	2.1	19.0	(2)	(2)
5957	do	do	Altered rhyolite	(2)	168	.03	1.7	23.5	19.3	30
12090A	do	do	do	(2)	[4] 169	[4] .21	[4] 2.8	[4] 14.3	18.7	(2)
12090B	do	do	do	(2)	[4] 169	[4] .21	[4] 2.8	[4] 14.3	17.3	(2)
13560	do	do	Altered andesite	(2)	169	.11	2.0	20.0	18.7	19
13563	do	do	Altered rhyolite	(2)	165	.11	3.0	13.3	18.7	17
1799	Marlborough	do	Hornblende schist	(2)	187	.30	2.1	19.0	18.7	23
20	Medford	do	Diabase	(2)	190	(2)	2.5	16.0	(2)	(2)
12088A	do	do	Altered diabase	(2)	[4] 179	[4] .28	[4] 4.1	[4] 9.8	18.0	(2)
12088B	do	do	Fragmental rhyolite	(2)	[4] 179	[4] .28	[4] 4.1	[4] 9.8	18.0	(2)
12088C	do	do	Altered rhyolite	(2)	[4] 179	[4] .28	[4] 4.1	[4] 9.8	18.7	(2)
12088D	do	do	Altered granite	(2)	[4] 179	[4] .28	[4] 4.1	[4] 9.8	18.0	(2)
12141A	Melrose	do	Altered rhyolite	(2)	[4] 170	[4] .12	[4] 2.6	[4] 15.4	19.3	17
12141B	do	do	do	(2)	[4] 170	[4] .12	[4] 2.6	[4] 15.4	18.7	20
12141C	do	do	do	(2)	[4] 170	[4] .12	[4] 2.6	[4] 15.4	18.7	14
12141D	do	do	Altered andesite	(2)	[4] 170	[4] .12	[4] 2.6	[4] 15.4	16.7	(2)
6	Newton	do	Trachyte	(2)	175	(2)	1.9	21.1	(2)	(2)
107	do	do	Conglomerate	(2)	(2)	(2)	4.6	8.7	(2)	(2)
5355	Pepperell	do	Calcareous sandstone	(2)	172	.22	2.0	20.0	17.7	28
19	Somerville	do	Gabbroitic diabase	(2)	178	(2)	4.3	9.3	(2)	(2)
103	do	do	Slate	(2)	172	(2)	4.7	8.5	(2)	(2)
5744	do	do	do	(2)	175	.67	3.8	10.5	11.8	4 [3] 17
12145-A	Stony Brook	do	Altered diabase	(2)	[4] 179	[4] .22	[4] 3.5	[4] 11.4	17.3	13
12145-B	do	do	Altered granite	(2)	[4] 179	[4] .22	[4] 3.5	[4] 11.4	18.7	11
12145-C	do	do	Altered rhyolite	(2)	[4] 179	[4] .22	[4] 3.5	[4] 11.4	(2)	16
4	Waltham	do	Hornblende granite	(2)	(2)	(2)	3.3	12.1	(2)	(2)
318	do	do	Diabase	(2)	(2)	(2)	2.5	16.0	(2)	(2)
12061-A	do	do	Hornblende trachyte	(2)	[4] 180	[4] .32	[4] 2.5	[4] 16.0	17.3	18
12061-B	do	do	Hornblende syenite	(2)	[4] 180	[4] .32	[4] 2.5	[4] 16.0	18.0	18
96	Watertown	do	Diabase	(2)	(2)	(2)	2.9	13.8	(2)	(2)
13847	West Chelmsford	do	Granite	(2)	(2)	(2)	3.6	11.1	18.0	9
8862	Westford	do	do	13,978	165	.31	2.5	16.0	(2)	8
8874	do	do	do	17,000	165	.28	2.3	17.4	(2)	8

8875	do	do	do	16,250	162	.48	2.9	13.8	(2)	8
13885	do	do	do	(2)	(2)	(2)	4.6	8.7	18.0	9
13894	do	do	do	(2)	(2)	(2)	3.1	12.9	19.3	9
19686	Weston	do	do	(2)	180	.20	3.1	12.9	18.3	12
12324	West Townsend	do	Granite	(2)	162	1.14	7.4	5.4	18.7	8
12852	do	do	Biotite granite	(2)	163	.26	6.9	5.8	17.3	6
13148	do	do	Granite	25,500	(2)	(2)	(2)	(2)	18.0	10
304	Winchester	do	Diorite	(2)	(2)	(2)	3.9	10.3	(2)	(2)
386	do	do	Decomposed diabase	(2)	200	.83	6.3	6.3	(2)	(2)
790	do	do	Meta diabase	(2)	187	.25	3.8	10.5	(2)	(2)
17198	do	do	Hornblende gabbro	(2)	189	.20	3.0	13.3	18.0	13
8493	Winchester Highlands	do	Altered diabase	(2)	187	.41	1.9	21.1	18.0	11
19300	Woburn	do	Olivine diabase	(2)	190	.45	2.7	14.8	18.7	31
7	Brookline	Norfolk	Diabase	(2)	178	(2)	3.5	11.4	(2)	(2)
23	do	do	Olivine diabase	(2)	187	(2)	2.7	14.8	(2)	(2)
367	do	do	Slate	(2)	175	.52	4.7	8.5	(2)	(2)
368	do	do	Rhyolite	(2)	178	.19	1.8	22.2	(2)	(2)
369	do	do	Altered diabase	(2)	181	.19	2.1	19.0	(2)	(2)
12063-A	do	do	Altered andesite	(2)	[4] 174	[4] .32	[4] 2.0	[4] 20.0	18.0	22
12063-B	do	do	Altered rhyolite	(2)	[4] 174	[4] .32	2.0	[4] 20.0	18.0	(2)
12063-C	do	do	Altered andesite	(2)	[4] 174	[4] .32	[4] 2.0	[4] 20.0	18.7	(2)
12063-D	do	do	do	(2)	[4] 174	[4] .32	[4] 2.0	[4] 20.0	18.7	(2)
5909	Dover	do	Altered felsite	(2)	178	.42	2.2	18.2	18.7	16
12325	do	do	Slate	(2)	177	.12	(2)	(2)	14.7	13
2475	Franklin	do	Sericite gneiss	(2)	168	.83	7.0	5.7	18.4	5
196	Milton	do	Sandstone	(2)	(2)	(2)	1.6	25.0	(2)	(2)
218	do	do	Syenite porphyry	(2)	(2)	(2)	1.9	21.1	(2)	(2)
219	do	do	Uralite diabase	(2)	(2)	(2)	1.8	22.2	(2)	(2)
7090	Needham	do	Altered diabase	(2)	181	.12	4.1	9.8	10.7	6
8616	North Stoughton	do	Altered diorite	(2)	187	.07	2.2	18.2	19.2	30
92	North Weymouth	do	Felsite	(2)	(2)	(2)	2.8	14.3	(2)	(2)
17	Quincy	do	Hornblende granite	(2)	165	(2)	3.9	10.3	(2)	(2)
18	do	do	Diabase	(2)	184	(2)	2.6	15.4	(2)	(2)
72	do	do	Felsite	(2)	(2)	(2)	2.0	20.0	(2)	(2)
230	do	do	Diabase	(2)	(2)	(2)	1.6	25.0	(2)	(2)
299	do	do	Uralite diabase	(2)	(2)	(2)	1.7	23.5	(2)	(2)
718	do	do	Chlorite schist	(2)	181	.13	5.1	7.8	(2)	(2)
1044	do	do	Diabase	(2)	193	.08	1.6	25.0	18.6	33
12195	do	do	Slate	(2)	168	.63	4.3	9.3	15.3	18
13562-A	do	do	Granite porphyry	(2)	166	.25	[4] 2.7	[4] 14.8	18.0	11
13562-B	do	do	Altered slate	(2)	175	.09	[4] 2.7	[4] 14.8	14.0	17
13562-C	do	do	Granite	(2)	164	.40	[4] 2.7	[4] 14.8	18.7	11
13562-D	do	do	do	(2)	163	.21	[4] 2.7	[4] 14.8	18.0	9
14652	do	do	Altered granite	(2)	163	.91	5.3	7.5	18.7	(2)
14897	Randolph	do	Feldspathic quartzite	(2)	163	.91	3.3	12.1	18.7	15 [3] 6
843	Stoughton	do	Diabase	(2)	187	.07	1.7	23.5	(2)	(2)
14278-A	West Quincy	do	Micaceous sandstone	(2)	[4] 168	[4] .36	[4] 3.7	[4] 10.8	14.7	10
14278-B	do	do	Granite	(2)	[4] 168	[4] .36	[4] 3.7	[4] 10.8	18.7	8
8793	Weymouth	do	Altered granite	(2)	165	.38	1.6	25.0	19.3	19

[2] Test not made.

[3] Tests made on specimens drilled at different angles with bedding plane.

[4] Tests made on composite sample.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MASSACHUSETTS—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
5	Duxbury	Plymouth	Gneiss	(2)	168	(2)	3.0	13.3	(2)	(2)
320	Hingham	do	Diabase	(2)	(2)	(2)	2.9	13.8	(2)	(2)
1863	do	do	Altered diabase	(2)	190	0.17	1.8	22.2	18.0	25
1887	do	do	do	(2)	175	.36	2.2	18.2	18.0	19
15292	do	do	Aplitic granite	(2)	130	.42	2.7	14.8	18.3	18
11991-A	Brighton	Suffolk	Feldspathic sandstone	(2)	166	.75	7.1	5.6	18.7	13
11991-B	do	do	do	(2)	166	.75	7.1	5.6	8.3	4
12051	do	do	Altered trachyte	(2)	175	.17	5.5	7.3	18.7	(2)
18910	do	do	Rhyolite breccia	(2)	165	.69	3.7	10.8	19.3	10
18911	do	do	Altered andesite	(2)	178	.37	3.0	13.3	18.3	10
12089-A	Boston	do	Altered rhyolite	(2)	[4] 166	[4] .23	[4] 3.2	[4] 12.5	19.3	25
12089-B	do	do	do	(2)	[4] 166	[4] .23	[4] 3.2	[4] 12.5	18.7	(2)
12089-C	do	do	do	(2)	[4] 166	[4] .23	[4] 3.2	[4] 12.5	(2)	(2)
12089-D	do	do	Fragmental rhyolite	(2)	[4] 166	[4] .23	[4] 3.2	[4] 12.5	18.3	(2)
13565	do	do	Diorite	(2)	182	.25	2.8	14.3	18.0	13
18912	do	do	Rhyolite breccia	(2)	167	.43	5.0	8.0	17.7	8
18920	Dorchester	do	Altered rhyolite	(2)	166	.58	2.7	14.8	19.0	25
18921	do	do	Altered dacite	(2)	165	.21	4.1	9.8	11.7	(2)
19227	do	do	Altered rhyolite	(2)	164	.38	3.2	12.5	19.3	12
3856	Hyde Park	do	Altered rhyolite breccia	(2)	168	.31	3.9	10.3	19.0	17
3857	do	do	Conglomerate	(2)	165	.60	5.1	7.8	18.4	10
13559	Jamaica Plains	do	Rhyolite breccia	(2)	166	.71	4.4	9.1	18.7	8
13561	do	do	Conglomerate	(2)	160	.63	5.0	8.0	18.0	7
18914	do	do	Altered rhyolite	(2)	180	.38	4.2	9.5	18.7	12
40	Mount Hope	do	Felsite	(2)	(2)	(2)	2.5	16.0	(2)	(2)
3	Revere	do	do	(2)	165	(2)	3.0	13.3	(2)	(2)
124	do	do	do	(2)	(2)	(2)	2.6	15.4	(2)	(2)
7506	do	do	Altered rhyolite	(2)	165	3.44	2.9	13.8	19.6	8
12050	Roxbury	do	do	(2)	168	.43	5.8	6.9	18.7	7
12056	do	do	Rhyolite breccia	(2)	167	.18	5.9	6.8	18.7	(2)
13567	do	do	Altered rhyolite	(2)	172	.39	4.4	9.1	17.3	11
15291	do	do	Altered rhyolite (felsite)	(2)	131	.59	2.6	15.4	19.0	12
18913	do	do	Rhyolite breccia	(2)	165	.45	2.5	16.0	17.3	12
13564	West Roxbury	do	Altered granite	(2)	168	.18	3.4	11.8	18.7	10
14878	do	do	Altered diabase	(2)	192	.19	1.8	22.2	18.7	24
14917	do	do	Granite	(2)	167	.25	4.1	9.8	18.7	10
15164	do	do	Altered diabase	(2)	192	.62	2.2	18.2	18.0	18
18915	do	do	Volcanic conglomerate	(2)	165	.71	4.8	8.3	17.3	8
18916	do	do	do	(2)	166	.53	6.6	6.1	(2)	(2)

18917	do	do	Quartz syenite	(2)	165	.35	3.5	11.4	18.7	11
18918	do	do	Altered diabase	(2)	191	.17	2.1	19.0	18.7	29
18919	do	do	Altered rhyolite	(2)	162	1.22	4.3	9.3	18.7	17
19225	do	do	Conglomerate	(2)	164	.98	7.5	5.3	(2)	(2)
19226	do	do	Granite	(2)	163	.54	4.0	10.0	18.3	10
19736	do	do	Conglomerate	19,710	167	.48	4.5	8.9	17.7	28
88	Athol	Worcester	Granite gneiss	(2)	(2)	(2)	3.2	12.5	(2)	(2)
203	Auburn	do	do	(2)	(2)	(2)	3.2	12.5	(2)	(2)
242	Clinton	do	Gneissoid granite	(2)	(2)	(2)	4.8	8.3	(2)	(2)
243	do	do	Hornblende schist	(2)	(2)	(2)	8.2	4.9	(2)	(2)
244	do	do	Mica schist	(2)	(2)	(2)	4.9	8.2	(2)	(2)
245	do	do	Gneiss	(2)	(2)	(2)	4.4	9.1	(2)	(2)
247	do	do	Felsite	(2)	(2)	(2)	2.5	16.0	(2)	(2)
279	do	do	Granite	(2)	(2)	(2)	4.6	8.7	(2)	(2)
10935	Fayville	do	Granite gneiss	(2)	162	.75	3.0	13.3	18.7	11
256	Fitchburg	do	Granite	(2)	(2)	(2)	2.2	18.2	(2)	(2)
295	do	do	do	(2)	(2)	(2)	4.2	9.5	(2)	(2)
7521	do	do	do	(2)	165	.31	4.3	9.3	17.7	6
7522	do	do	do	(2)	168	.28	4.4	9.1	17.2	5
7523	do	do	do	(2)	165	.34	3.2	12.5	17.7	6
11250	do	do	Biotite granite	(2)	166	.79	5.7	7.0	17.9	7
21095	do	do	Granite	24,705	166	.43	3.8	10.5	17.7	8
21127	do	do	Biotite granite	14,665	166	.64	5.5	7.3	18.3	7
7711	Grafton	do	Granite gneiss	(2)	165	.45	5.2	7.7	19.5	8
5378	Leominster	do	do	(2)	175	.36	3.6	11.1	16.4	10
5379	do	do	Sericite schist	(2)	168	.92	3.9	10.3	17.2	8
5400	do	do	Field stone	(2)	(2)	(2)	4.5	8.9	(2)	(2)
5401	do	do	Biotite schist	(2)	172	.36	3.6	11.1	16.7	6
18080	do	do	Micaceous quartzite	(2)	172	.74	3.1	12.9	16.7	13
227	Millville	do	Diorite	(2)	(2)	(2)	2.7	14.8	(2)	(2)
17503	Southbridge	do	Biotite schist	(2)	172	.62	4.3	9.3	16.3	11
83	Sterling	do	Diabase	(2)	(2)	(2)	2.1	19.0	(2)	(2)
265	do	do	Hornblende syenite	(2)	(2)	(2)	2.3	17.4	(2)	(2)
63	Uxbridge	do	Hornblende granite	(2)	187	(2)	3.2	12.5	(2)	(2)
411	Webster	do	Mica schist	(2)	178	.30	6.3	6.3	(2)	(2)
114	West Auburn	do	Limestone	(2)	(2)	(2)	3.3	12.1	(2)	(2)
5988	do	do	Mica gneiss	(2)	165	.49	3.0	13.3	18.0	13
10089	West Rutland	do	Granite	(2)	164	.16	2.9	13.8	18.6	12
10090	do	do	do	(2)	161	.79	6.7	6.0	18.0	7
10091	do	do	Biotite gneiss	(2)	168	.89	6.5	6.2	16.3	9
18741	Whitins	do	Gneissoid granite	32,075	164	.29	(2)	(2)	18.7	8
18742	do	do	do	23,985	164	.54	(2)	(2)	18.3	6
266	Worcester	do	Granite	(2)	(2)	(2)	4.6	8.7	(2)	(2)
8394	do	do	do	(3)	162	.72	5.6	7.1	19.0	5

[2] Test not made.

[4] Test made on composite sample.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MICHIGAN

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1633	Eben	Alger	Siliceous dolomite	(2)	168	1.88	5.7	7.0	14.7	5
1243	Grand Island	do	Dolomitic sandstone	(2)	159	.45	5.2	7.7	17.3	7
2216	Rock River Township	do	Siliceous limestone	(2)	159	3.92	7.2	5.6	10.2	7
5581	Trenary	do	Argillaceous limestone	(2)	168	.56	5.6	7.1	13.8	6
1594	Alpena	Alpena	Limestone	(2)	165	1.55	7.9	5.1	(2)	(2)
2105	Whitney	Arenac	do	(2)	165	1.19	3.3	12.1	14.3	8
5004	Charlevoix	Charlevoix	do	(2)	147	4.24	9.9	4.0	.0	4
6399	Sault Ste. Marie	Chippewa	Uralitic diabase	(2)	181	.47	2.7	14.8	18.8	13
6483	do	do	Altered diabase	(2)	187	.61	2.1	19.0	18.7	31
7084	do	do	Altered gabbro	(2)	193	.11	4.1	9.8	17.3	12
1841	Wells	Delta	Limestone	(2)	168	1.09	3.7	10.8	(2)	(2)
1846	do	do	Dolomite	(2)	175	.39	3.4	11.8	16.5	12
1848	do	do	Limestone	(2)	168	1.09	3.8	10.5	16.0	11
1621	Breitung Township	Dickinson	Ferruginous slate	(2)	209	1.44	4.3	9.3	(2)	(2)
1622	Iron Mountain	do	Dolomite	(2)	178	.40	4.6	8.7	17.2	8
1741	do	do	Ferruginous slate	(2)	196	1.09	5.2	7.7	(2)	(2)
2008	do	do	Ferruginous sandstone	(2)	190	1.32	4.9	8.2	(2)	(2)
2603	do	do	Altered diorite	(2)	184	.37	3.9	10.3	(2)	(2)
2611	do	do	Amphibolite	(2)	181	.54	3.2	12.5	18.1	29
2625	do	do	Ferruginous sandstone	(2)	203	1.69	5.7	7.0	(2)	(2)
2675	do	do	Quartzite	(2)	162	.61	3.5	11.4	(2)	(2)
5146	do	do	Hornblende schist	(2)	190	.17	1.7	23.5	18.6	27
1782	Turner (near)	do	Gneissoid granite	(2)	165	.53	4.2	9.5	18.5	13
4206	Bellevue	Eaton	Limestone	(2)	159	3.08	7.5	5.3	11.8	4
4320	do	do	do	(2)	165	.85	4.7	8.5	15.3	7
4321	do	do	do	(2)	168	.54	3.2	12.5	16.0	11
1335	Petoskey	Emmet	do	(2)	162	1.36	4.5	8.9	13.8	12
4682	do	do	Argillaceous limestone	(2)	165	1.24	5.6	7.1	6.3	7
20371	do	do	do	(2)	165	1.30	5.9	6.8	13.3	7
20372	do	do	do	(2)	164	1.31	5.3	7.5	15.7	6
20373	do	do	do	(2)	165	.94	6.3	6.3	16.3	3
20374	do	do	do	(2)	165	.75	4.9	8.2	14.0	9
4854	Petoskey (3 miles north of)	do	Siliceous limestone	(2)	159	2.34	8.3	4.8	18.8	13
4075	(1)	do	Limestone	(2)	165	1.58	5.1	7.8	14.5	12
5034	Bessemer	Gogebic	Altered diabase	(2)	181	.45	5.0	8.0	17.5	7
1131	Calumet	Houghton	do	(2)	175	1.24	3.2	12.5	16.5	18
1132	do	do	do	(2)	181	.42	4.2	9.5	13.0	(2)
4153	Hancock	do	Altered basalt	(2)	184	2.12	2.6	15.4	18.1	10
1287	Bay Port	Huron	Dolomitic limestone	(2)	165	1.34	2.7	14.8	15.1	12

1288	do	do	do	(2)	165	1.35	(2)	(2)	15.3	12
4063	do	do	Limestone	(2)	165	1.60	3.3	12.1	15.4	11
3767	Port Austin	do	Sandstone	(2)	165 [3] 153	1.67 [3] 4.80	7.6	5.3	.0	5
4027	do	do	Altered diabase	(2)	190	.14	1.8	22.2	18.8	29
6082	Windsor Township	do	Siliceous limestone	(2)	165	1.08	4.0	10.0	16.0	13
2081	Whittimore	Iosco	Limestone	(2)	162	1.94	4.5	8.9	12.5	9
2548	do	do	do	(2)	165	1.84	5.9	6.8	13.3	6
1970	Jackson (near)	Jackson	do	(2)	162	2.13	7.2	5.6	12.7	5
1971	do	do	do	(2)	168	3.08	9.5	4.2	8.3	5
3469	(1)	Keweenaw	Olivine diabase	(2)	184	.16	3.0	13.3	18.2	17
3507	Mandan	do	Altered diabase	(2)	178	.11	4.2	9.5	16.8	12
3508	do	do	do	(2)	178	.22	5.1	7.8	12.3	6
2503	(1)	Lenawee	Quartzite	(2)	165	.24	1.9	21.1	19.5	24
6476	Garfield Township	Mackinac	Limestone	(2)	168	.44	4.6	8.7	15.3	5
1133	Marquette	Marquette	Hornblende schist	(2)	184	.14	4.7	8.5	18.0	30
3090	do	do	Altered diabase	(2)	187	.14	1.5	26.7	18.3	33
9855	do	do	Hornblende gneiss	(2)	184	.62	(2)	(2)	19.3	22
9856	do	do	Altered diabase	(2)	184	.66	(2)	(2)	18.7	25
9857	do	do	Amphibolite	(2)	181	.57	(2)	(2)	18.0	17
9975	do	do	Altered diabase	(2)	181	.52	2.1	19.0	19.3	12
9976	do	do	do	(2)	175	.42	3.8	10.5	16.0	13
9977	do	do	do	(2)	184	.60	3.1	12.9	18.3	11
2455	Marquette (near)	do	Hornblende schist	(2)	175	.33	4.1	9.8	16.3	20
2456	do	do	Altered diabase	(2)	165	1.81	4.5	8.9	16.0	13
2825	do	do	do	(2)	184	.38	3.7	10.8	17.2	19
2826	do	do	Quartzite	(2)	165	.07	3.3	12.1	(2)	(2)
3198	do	do	Epidote-chlorite schist	(2)	181	.16	2.6	15.4	16.8	18
3199	do	do	Hornblende schist	(2)	190	.40	2.5	16.0	17.8	26
5030	do	do	Altered diabase	(2)	184	.18	2.6	15.4	16.7	20
1675	Negaunee	do	Slate	(2)	175	.51	(2)	(2)	16.8	12
1676	do	do	Altered diabase	(2)	172	1.52	5.5	7.3	18.5	9
2688	do	do	do	(2)	181	.17	4.0	10.0	17.4	10
7152	do	do	Altered gabbro	(2)	187	.11	2.9	14.0	17.8	10
7153	do	do	do	(2)	184	.17	2.7	14.8	17.3	12
1635	(1)	do	Chloritized basalt	(2)	184	.37	2.1	19.0	17.2	23
1636	(1)	do	do	(2)	184	.24	2.5	16.0	17.2	22
1637	(1)	do	Ferruginous slate	(2)	175	.51	4.8	8.3	15.2	10
2645	(1)	do	Altered diabase	(2)	187	.17	3.4	11.8	16.8	12
4955	Bedford	Monroe	Dolomite	(2)	165	.29	4.1	9.8	14.9	10
11223	Dundee	do	Limestone	(2)	156	1.32	9.0	4.4	0.0	4
1629	Ida	do	Dolomite	(2)	162	3.46	6.0	6.7	13.3	7
5003	do	do	Calcareous sandstone	(2)	165	.26	6.2	6.5	18.4	13
3834	Monroe	do	Dolomite	(2)	165	2.80	4.0	10.0	14.4	6
3835	do	do	do	(2)	165	3.28	4.5	8.9	14.8	5
6085	do	do	do	(2)	175	1.54	6.4	6.2	5.7	3
9889	do	do	do	(2)	175	.64	3.6	11.1	17.0	16
9988	do	do	Argillaceous dolomite	11,750	165	3.03	4.2	9.5	(2)	5
9989	do	do	do	(2)	175	1.47	4.7	8.5	13.5	5
10041	do	do	Dolomite	(2)	172	1.80	3.6	11.1	17.0	17
24965	do	do	do	(2)	156	4.43	4.8	8.3	16.0	6

[1] Exact location not known.

[2] Test not made.

[3] Test made on different samples.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MICHIGAN—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
27371	Monroe	Monroe	Siliceous dolomite	37, 200	163	3. 64	7. 6	5. 3	17. 3	6
15771	Scofield	do	Dolomite	(2)	163	2. 26	5. 2	7. 7	13. 3	7
9593	Calcite	Presque Isle	Limestone	10, 330	165	. 74	5. 6	7. 1	14. 3	5
11752	do	do	do	(2)	157	1. 88	6. 9	5. 8	5. 9	4
28689	do	do	do	(2)	156	2. 17	6. 8	5. 9	6. 0	5
9222	Rogers City	do	do	(2)	162	1. 86	5. 4	7. 4	(2)	(2)
14623	do	do	do	(2)	162	1. 30	9. 5	4. 2	13. 3	5
24398	do	do	do	(2)	156	2. 02	7. 0	5. 7	10. 7	4
14689	Inwood Township	Schoolcraft	Dolomitic marble	(2)	177	. 46	4. 8	8. 3	16. 0	8
2806	Manistique	do	Limestone	(2)	168	. 32	4. 5	8. 9	15. 8	6
2807	do	do	do	(2)	172	1. 27	4. 2	9. 5	14. 3	6
2808	do	do	do	(2)	175	1. 00	2. 7	14. 8	16. 7	12
3254	Bed of Detroit River	Wayne	Dolomite	(2)	156	3. 77	4. 8	8. 3	12. 6	4
8301	do	do	do	(2)	162	. 23	4. 9	8. 2	14. 8	4
3255	Detroit	do	do	(2)	168	. 87	5. 4	7. 4	13. 3	9
9888	Sibley	do	Limestone	(2)	159	2. 82	12. 4	3. 2	15. 3	6
24477	do	do	do	(2)	168	. 60	3. 8	10. 5	15. 7	7
28694	do	do	do	(2)	161	2. 21	6. 2	6. 5	12. 3	5
28695	do	do	do	(2)	154	3. 11	7. 2	5. 6	9. 7	6
28696	do	do	do	(2)	160	1. 81	5. 1	7. 8	11. 3	7

MINNESOTA

11703	Sauk Rapids	Benton	Biotite granite	(2)	165	0. 35	4. 0	10. 0	19. 0	9
11704	do	do	Granite	(2)	163	. 48	7. 0	5. 7	18. 7	7
11705	do	do	Hornblende granite	(2)	169	. 32	3. 2	12. 5	18. 7	8
9532	Mankato	Blue Earth	Argillaceous dolomite	(2)	159	3. 22	4. 7	8. 5	16. 7	14
11341	do	do	Calcareous sandstone	(2)	156	4. 80	6. 4	6. 2	5. 3	2
1010	Carlton	Carlton	Slate	(2)	175	. 67	6. 0	6. 7	11. 2	5
2442	do	do	do	(2)	172	. 53	2. 8	14. 3	12. 7	10
3764	Mantorville	Dodge	Dolomite	(2)	150	8. 24	11. 5	3. 5	2. 0	3
25213	do	do	do	(2)	147	6. 67	8. 4	4. 8	13. 0	5
21029	Minneapolis	Hennepin	Argillaceous limestone	23, 500	161	2. 66	7. 2	5. 6	14. 0	8
1170	Courtland	Nicollet	Quartzite	(2)	165	. 39	1. 6	25. 0	19. 0	22
2340	do	do	do	(2)	165	. 15	2. 1	19. 0	19. 7	12
21233	do	do	do	(2)	166	. 10	4. 3	9. 3	18. 7	10

7954	Sandstone	Pine	Ferruginous sandstone	(2)	156	1.40	11.6	3.4	15.2	4
8943	do	do	Sandstone	(2)	156	1.23	13.8	2.9	14.8	4
27569	do	do	do	10,925	140	6.07	14.4	2.8	14.7	4
2410	Pipestone	Pipestone	Ferruginous sandstone	(2)	172	.40	4.6	8.7	14.5	16
2426	(1)	Redwood	Granite	(2)	165	.28	2.4	16.7	19.0	16
2427	(1)	do	Weathered granite	(2)	134	(2)	15.2	2.6	(2)	2
10485	Jasper	Rock	Quartzite	(2)	164	.18	2.0	20.0	19.7	17
14495	Luverne	do	do	(2)	168	.38	2.4	16.7	(2)	(2)
1241	St. Cloud	Sherburne	Diorite	(2)	168	.12	(2)	(2)	18.0	19
807	Duluth (near)	Saint Louis	Olivine gabbro	(2)	172	.12	4.7	8.5	17.4	10
5301	do	do	Altered gabbro	(2)	172	.50	5.2	7.7	16.8	8
22705	do	do	Altered basalt	(2)	179	.18	1.7	23.5	18.7	29
15214	Mesaba (14 miles east of)	do	Epidosite	(2)	218	.48	2.6	15.4	18.7	20
2909	Minnesota City	Winona	Dolomite	(2)	168	1.74	5.0	8.0	13.3	5
5524	Stockton	do	Argillaceous dolomite	16,000	165	2.97	7.9	5.1	5.6	5
13725	(1)	(1)	Sandstone	(2)	187	.24	3.8	10.5	18.7	18

MISSISSIPPI

2590	Kosciusko	Attala	Sandstone	(2)	162	0.90	6.3	6.3	19.2	14
5890	Houston	Chickasaw	Argillaceous limestone	(2)	150	6.28	12.2	3.3	6.7	5
6812	Woodland	do	Ferruginous sandstone	(2)	162	4.91	23.7	1.7	(2)	(2)
10287	(1)	Holmes	Sandstone	(2)	144	4.70	7.8	5.1	18.0	8
6739	Bay Springs	Jasper	Argillaceous limestone	(2)	153	3.50	(2)	(2)	11.2	6
6742	do	do	do	(2)	162	2.52	(2)	(2)	10.7	5
453	Stonington	Jefferson	Ferruginous sandstone	(2)	131	11.60	31.8	1.3	(2)	(2)
8240	Meridian (10 miles west of)	Lauderdale	Opaline sandstone	(2)	139	.60	14.9	2.7	18.5	5
8241	Meridian (10½ miles west of)	do	Sandstone	(2)	153	1.90	6.2	6.5	19.3	10
28177	Meridian (near)	do	Weathered sandstone	(2)	105	18.82	18.1	2.2	9.3	5
28673	Meridian (9 miles west of)	do	Argillaceous sandstone	(2)	113	13.15	21.0	1.9	18.0	4
26672	(1)	do	Opaline sandstone	(2)	118	12.38	17.0	2.4	(2)	5
1514	Columbus	Lowdnes	Limestone	(2)	159	3.46	4.2	9.5	7.4	6
6080	do	do	Argillaceous limestone	(2)	162	2.40	5.3	7.5	10.0	6
5897	Holly Springs	Marshall	Ferruginous sandstone	(2)	181	1.72	28.1	1.4	15.4	3
6607	(1)	Neshoba	Argillaceous sandstone	(2)	119	14.00	10.1	4.0	11.0	5
16131	Chunky	Newton	Sandstone	(2)	124	8.96	9.8	4.1	3.3	5
5871	Macon	Noxubee	Limestone	(2)	165	1.57	4.5	8.9	13.7	10
12692	Pontotoc	Pontotoc	Siliceous limestone	(2)	160	.92	7.0	5.7	17.0	9
11791	Brandon	Rankin	Argillaceous limestone	(2)	156	3.08	5.6	7.1	12.0	5
14283	Iuka (near)	Tishomingo	Weathered chert	(2)	127	7.89	12.2	3.3	(2)	(2)
10098	New Albany	Union	Sandstone	(2)	156	2.58	11.1	3.6	18.7	7
20947	Katzenmeyer (near)	Warren	Fossiliferous limestone	(2)	157	3.73	9.2	4.3	11.7	7

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

MISSOURI

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1775	Kirksville	Adair	Limestone	(2)	165	1.25	4.9	8.2	16.5	8
24611	Lamar	Barton	Crystalline limestone	(2)	160	.67	8.5	4.7	5.0	4
11510	Cassville	Barry	Marble	(2)	169	.70	5.7	7.0	11.7	3
1289	Columbia	Boone	Limestone	(2)	165	.85	8.8	4.5	0.0	4
1290	do	do	do	(2)	162	1.06	6.6	6.1	7.7	5
6375	Rocheport	do	do	13,900	165	1.31	9.3	4.3	12.3	3
6376	Portland	Callaway	Argillaceous dolomite	(2)	153	3.78	8.7	4.6	(2)	(2)
4398	Cape Girardeau	Cape Girardeau	Limestone	(2)	168	.49	3.7	10.8	15.8	9
15444	do	do	do	(2)	168	.37	4.3	9.3	17.0	5
21089	do	do	do	(2)	169	.12	4.7	8.5	16.0	9
10169	West Line	Cass	do	16,690	156	1.09	11.5	3.5	13.5	5
10410	(1)	do	do	(2)	167	.53	5.6	7.1	14.7	6
6377	Sweeney	Cooper	Argillaceous limestone	14,900	165	2.67	4.8	8.3	13.5	8
1027	Springfield	Greene	Chert	(2)	165	.94	5.4	7.4	(2)	(2)
19634	Ironton	Iron	Porphyry	(2)	205	.46	5.4	7.4	18.0	9
20302	do	do	Fragmental hematite	(2)	201	.25	2.4	16.7	18.3	16
7095	Independence	Jackson	Limestone	(2)	165	.90	5.3	7.5	12.0	2
6472	Kansas City	do	do	(2)	165	1.02	4.8	8.3	13.4	6
6473	do	do	do	(2)	162	1.82	6.3	6.3	15.2	4
11509	do	do	Marble	(2)	165	.66	7.5	5.3	8.3	2
14731	do	do	Limestone	(2)	164	.74	5.5	7.3	13.3	5
7096	(1)	do	do	(2)	168	.67	7.2	5.6	14.1	2
7097	(1)	do	do	(2)	150	4.66	19.4	2.1	4.5	3
1862	Carthage	Jasper	do	(2)	168	.22	6.0	6.7	7.3	8
6045	do	do	do	(2)	165	.83	6.4	6.2	7.7	5
20953	Prosperity	do	Chert	(2)	162	.30	5.5	7.3	19.3	4
3203	Webb City	do	do	(2)	162	.58	4.5	8.9	(2)	(2)
14448	Webb City (north of)	do	do	(2)	155	2.96	4.4	9.1	19.7	(2)
1521	Edina	Knox	Limestone	(2)	165	.96	7.1	5.6	6.1	5
5180	Lexington	Lafayette	do	(2)	165	1.38	4.5	8.9	13.7	6
1511	Macon	Macon	do	(2)	168	1.35	3.4	11.8	16.6	14
1513	do	do	do	(2)	168	1.07	3.9	10.3	16.1	14
1080	Mine La Motte	Madison	Dolomitic limestone	(2)	175	.52	4.0	10.0	15.5	10
21030	Wellsville	Montgomery	Argillaceous limestone	23,565	164	1.62	5.5	7.3	14.0	4
1016	Neosho	Newton	Chert	(2)	(2)	(2)	4.6	8.7	(2)	(2)
1125	do	do	do	(2)	125	11.10	6.9	5.8	19.6	21
2114	Sedalia	Pettis	Limestone	(2)	165	.57	7.6	5.3	9.7	5
2115	do	do	do	(2)	165	2.14	4.1	9.8	6.9	4

10251	Hamburg	Saint Charles	do	(2)	167	.63	5.2	7.7	12.3	4
10252	do	do	do	(2)	164	.90	7.3	5.5	10.7	3
20968	Weldon Springs	do	do	16,715	162	1.45	5.4	7.4	10.0	5
22716	do	do	Crystalline limestone	12,480	164	.82	6.7	6.0	12.3	4
21198	Maplewood	Saint Louis	Limestone	(2)	168	.34	5.0	8.0	14.7	6
7284*	Mincke	do	do	(2)	168	.60	6.4	6.2	10.2	4
11743	University City	do	do	(2)	158	3.81	5.2	7.7	14.6	7
1634	Vigus	do	do	(2)	165	1.03	3.9	10.3	14.7	8
11789	do	do	do	(2)	163	2.10	6.7	6.0	14.0	5
10237	(1)	do	do	(2)	167	.73	4.0	10.0	16.0	7
10238	(1)	do	do	(2)	167	.75	5.1	7.8	15.3	5
1081	Saint Louis		do	(2)	168	.75	3.8	10.5	14.6	9
1596	do		do	(2)	168	.60	5.6	7.1	12.8	6
8215	do		do	(2)	168	.75	4.9	8.2	16.7	7
8216	do		do	(2)	168	.73	3.7	10.8	(2)	(2)
8217	do		do	(2)	168	.64	3.8	10.5	14.3	6
8221	do		do	(2)	168	1.33	3.9	10.3	(2)	(2)

MONTANA

2157	Anaconda	Deerlodge	Limestone	(2)	165	1.26	7.5	5.3	12.9	5
15898	do	do	Quartzite	(2)	162	1.10	5.6	7.1	(2)	(2)
16155	do	do	do	(2)	163	.34	4.3	9.3	(2)	(2)
1649	Bozeman	Gallatin	Sandstone	(2)	156	2.13	3.8	10.5	18.7	15
1651	do	do	Calcareous sandstone	(2)	162	1.77	3.4	11.8	16.5	15
14363	Logan	do	Limestone	(2)	169	.36	3.4	11.8	(2)	(2)
14466	Trident	do	do	(2)	166	.72	6.8	5.9	(2)	(2)
14467	do	do	Siliceous limestone	(2)	164	1.43	3.4	11.8	17.0	14
14360	Livingston (20 miles south of)	Park	Basalt	(2)	178	1.95	4.6	8.7	16.7	10
21399	Silver Bow (near)	Silver Bow	Altered andesite	17,380	155	1.35	6.1	6.6	17.0	9
21400	do	do	Altered trachyte	(2)	153	1.62	6.3	6.3	(2)	(2)
15899	(1)	Wibaux	Burnt shale	(2)	122	13.77	23.8	1.7	(2)	(2)
8650	Billings	Yellowstone	Calcareous sandstone	(2)	165	1.05	3.7	10.8	17.3	10
13897	do	do	Sandstone	(2)	135	9.27	26.3	1.5	13.5	7

NEBRASKA

2940	Cedar Creek	Cass	Limestone	(2)	165	1.19	5.4	7.4	14.9	6
2941	do	do	do	(2)	165	.85	5.9	6.8	15.5	6
2942	do	do	do	(2)	165	1.61	4.7	8.5	13.2	6
16080	Louisville (near)	do	Argillaceous limestone	(2)	163	2.44	5.8	6.9	14.7	6
18831	do	do	Limestone	17,010	160	3.02	4.6	8.7	11.3	6
18832	do	do	do	14,070	163	2.05	6.2	6.5	12.0	3
18833	do	do	do	18,670	164	1.82	4.9	8.2	12.7	6
2943	Nehawka	do	do	(2)	165	.83	4.9	8.2	14.7	5

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

NEBRASKA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
2944	Nehawka	Cass	Limestone	(2)	159	2.43	5.4	7.4	11.4	6
9905	do	do	Argillaceous limestone	(2)	168	.75	4.7	8.5	16.0	6
14581	(1)	do	Cherty limestone	(2)	163	1.27	4.8	8.3	15.0	7
14582	(1)	do	Siliceous limestone	(2)	162	2.65	6.7	6.0	13.3	5
360	Blue Springs	Gage	Chert	(2)	159	1.33	5.8	6.9	(2)	(2)
3091	Wymore	do	Cherty dolomite	(2)	156	3.98	11.8	3.4	(2)	(2)
1509	Auburn	Nemaha	Limestone	(2)	159	3.12	4.4	9.1	6.2	7
1510	do	do	do	(2)	153	4.38	5.1	7.8	11.0	7
1361	Johnson	do	do	(2)	150	5.30	3.7	10.8	16.2	5
1362	do	do	do	(2)	153	4.40	10.1	4.0	4.0	4
27352	Indianola (4 miles east of)	Redwillow	Sandstone	(2)	149	1.46	6.4	6.2	18.0	5

NEVADA

24834	Eureka	Eureka	Rhyolite	(2)	139	5.74	6.8	5.9	17.3	12

NEW HAMPSHIRE

11339	Redstone	Carroll	Biotite granite	21,910	161	0.61	5.7	7.0	18.0	7
12229	do	do	Granite	(2)	162	.65	6.5	6.2	18.0	7
9895	Fitzwilliam	Cheshire	do	10,825	165	.33	3.8	10.5	18.7	9
9946	do	do	do	26,100	165	.32	3.7	10.8	17.7	9
9893	Marlboro	do	do	15,615	165	.36	6.7	6.0	17.3	8
9894	do	do	do	15,255	165	.52	5.7	7.0	19.3	6
13864	do	do	do	(2)	(2)	(2)	4.0	10.0	16.7	8
12185	Webb	do	do	(2)	163	2.30	4.4	9.1	17.0	7
370	Hanover	Grafton	do	(2)	165	.21	3.2	12.5	(2)	(2)
371	do	do	Hornblende schist	(2)	193	.22	3.3	12.1	(2)	(2)
2020	Haverhill	do	Porphyritic diorite	(2)	187	.71	1.8	22.2	18.0	12
2101	do	do	Diorite	(2)	184	.87	2.5	16.0	17.2	9
2102	do	do	Quartzite schist	(2)	165	.89	2.3	17.4	18.2	10
372	Lebanon	do	Hornblende schist	(2)	190	.38	4.0	10.0	(2)	(2)

373	do	do	Biotite schist	(2)	168	.47	5.9	6.8	(2)	(2)
2182	Thornton	do	Altered diabase	(2)	181	.39	2.2	18.2	16.9	19
5751	Bedford	Hillsboro	Biotite gneiss	(2)	168	.55	10.3	3.9	18.0	6
13883	Brookline	do	Granite	(2)	(2)	(2)	3.3	12.1	18.0	8
4050	Manchester	do	Quartz	(2)	165	.15	4.0	10.0	(2)	(2)
5545	Merrimack	do	Sandstone	(2)	168	.71	5.9	6.8	17.5	6
5752	Milford	do	Biotite granite	(2)	165	.26	3.5	11.4	18.5	9
8872	do	do	Granite	15,550	165	.31	4.6	8.7	(2)	8
9009	do	do	Biotite granite	(2)	165	.59	3.6	11.1	18.0	8
9010	do	do	do	16,640	(2)	(2)	(2)	(2)	(2)	7
9011	do	do	do	14,870	(2)	(2)	(2)	(2)	(2)	7
9012	do	do	do	18,225	(2)	(2)	(2)	(2)	(2)	7
11234	do	do	do	18,250	163	.81	3.3	12.1	18.3	7
11419	do	do	Granite	19,800	(2)	(2)	(2)	(2)	18.0	8
13861	do	do	do	(2)	(2)	(2)	4.3	9.3	17.3	8
21276	do	do	Biotite granite	26,240	166	.44	4.0	10.0	18.3	8
21277	do	do	do	25,085	165	.62	3.3	12.1	17.7	10
25177	do	do	do	22,760	166	.51	3.3	12.1	18.7	6
25178	do	do	do	24,235	166	.48	3.6	11.1	18.3	7
25212	do	do	do	24,260	165	.57	3.8	10.5	18.0	5
26055	do	do	do	22,265	169	.45	3.8	10.5	18.5	10
5750	Nashua	do	Biotite schist	(2)	168	.19	2.8	14.3	17.2	23
13860	South Milford	do	Granite	(2)	(2)	(2)	5.1	7.8	18.0	7
9994	Allenstown	Merrimack	Granite	18,110	165	.61	2.5	16.0	19.0	11
13867	do	do	do	(2)	(2)	(2)	3.4	11.8	18.7	10
2053	Concord	do	Granite	(2)	165	.47	3.6	11.1	18.5	10
8870	do	do	do	15,100	165	(2)	3.8	10.5	(2)	7
9031	do	do	do	16,600	165	.43	4.0	10.0	18.7	10
9036	do	do	do	13,420	165	.63	3.9	10.3	18.0	8
9037	do	do	do	13,900	165	.52	4.1	9.8	17.7	7
13849	do	do	do	(2)	(2)	(2)	4.2	9.5	17.3	7
13863	do	do	do	(2)	(2)	(2)	3.4	11.8	18.7	9
14892	do	do	do	(2)	164	.75	4.6	8.7	17.7	10
2362	Portsmouth	Rockingham	Altered rhyolite	(2)	172	.14	2.7	14.8	18.8	11
27573	do	do	Siliceous slate	25,710	174	.14	3.4	11.8	18.7	28
27574	do	do	Altered basalt	18,390	179	.34	5.4	7.4	16.7	7
27575	do	do	do	29,195	182	.09	2.8	14.3	18.0	19
27576	do	do	Micaceous quartzite	24,890	170	.19	5.2	7.7	15.3	17
11711	Dover	Strafford	Siliceous marble	(2)	173	.09	4.8	8.3	17.7	15
12325	do	do	Slate	(2)	177	.12	(2)	(2)	14.7	13
1779	Farmington	do	Granite	(2)	165	.29	3.7	10.8	17.3	12
			NEW JERSEY							
1718	Millburn	Essex	Basalt	(2)	184	.10	2.0	20.0	18.0	21
986	Montclair	do	do	(2)	181	.95	1.9	21.1	18.4	24
987	do	do	do	(2)	184	.61	1.8	22.2	17.6	35
988	do	do	do	(2)	187	.30	1.7	23.5	18.8	29

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

NEW JERSEY—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1713	Montclair Heights	Essex	Basalt	(2)	184	0.28	2.1	19.0	18.8	24
12263	Upper Montclair	do	Altered basalt	(2)	183	.30	2.9	13.8	18.7	43
1727	Verona	do	Basalt	(2)	181	.50	2.3	17.4	17.3	17
1721	West Orange	do	Altered basalt	(2)	184	.10	1.8	22.2	18.5	21
1753	do	do	do	(2)	187	.10	1.8	22.2	17.8	24
1754	do	do	Basalt	(2)	187	.10	1.4	28.6	17.3	28
1755	do	do	do	(2)	184	.36	2.3	17.4	18.3	28
12001	do	do	do	(2)	183	.28	(2)	(2)	18.0	25
14638	(1)	do	do	(2)	183	.15	2.4	16.7	17.6	12
73	Guttenberg	Hudson	do	(2)	(2)	(2)	1.3	30.8	(2)	(2)
1773	Jersey City	do	Olivine diabase	(2)	196	.13	2.5	16.0	18.3	19
1751	Secaucus	do	Gabbroitic diabase	(2)	184	.12	2.8	14.3	18.3	27
1756	do	do	do	(2)	187	.18	2.1	19.0	18.3	18
251	Byram Station	Hunterdon	Basalt	(2)	(2)	(2)	1.5	26.7	(2)	(2)
1015	Califon	do	Dolomite	(2)	178	.15	3.7	10.8	16.9	15
2205	do	do	do	(2)	178	.64	3.3	12.1	(2)	(2)
2838	do	do	do	(2)	178	.39	3.7	10.8	17.0	10
2842	do	do	do	(2)	178	.37	3.3	12.1	16.3	13
2843	do	do	do	(2)	178	.16	3.5	11.4	17.1	14
16027	do	do	Dolomitic marble	(2)	177	.38	3.5	11.4	15.7	11
16029	do	do	do	(2)	177	.48	3.4	11.8	16.0	14
23520	do	do	Siliceous dolomite	25,670	177	.35	3.5	11.4	16.7	7
5233	Clinton	do	Siliceous limestone	(2)	175	.25	3.0	13.3	17.6	25
6035	Flemington (near)	do	Siliceous slate	(2)	162	.32	(2)	(2)	17.3	27
5946	Highbridge	do	Augite diorite	(2)	190	.95	3.9	10.3	18.5	16
253	Lambertville	do	Uralite gabbro	(2)	(2)	(2)	2.8	14.3	(2)	(2)
903	do	do	Gabbroitic diabase	(2)	(2)	(2)	(2)	(2)	17.1	23
12386	do	do	do	(2)	184	.22	3.3	12.1	18.2	29
10795	do	do	Diabase	(2)	183	.46	2.8	14.3	18.7	19
387	Lambertville (near)	do	Gabbro	(2)	184	.14	2.8	14.3	(2)	(2)
4026	Milford (near)	do	Calcareous sandstone	(2)	168	.52	(2)	(2)	17.6	17
14869	Vernoy	do	Dolomite	(2)	177	.39	3.0	13.3	15.3	8
2085	Whitehouse	do	Altered diabase	(2)	181	1.08	1.8	22.2	17.5	18
2786	do	do	do	(2)	184	.47	2.6	15.4	18.3	27
286	Hopewell	Mercer	Diabase	(2)	(2)	(2)	2.5	16.0	(2)	(2)
5446	Pennington	do	Altered diabase	(2)	184	.26	3.8	10.5	17.7	17
6008	do	do	Gabbro	(2)	187	.05	2.4	16.7	18.5	21
11914	do	do	Altered diabase	(2)	182	.24	3.4	11.8	18.3	18
249	Bergen Hill	Middlesex	Gabbro	(2)	(2)	(2)	2.7	14.8	(2)	(2)

24212	Perth Amboy (near)	do	Feldspathic sandstone	19,140	154	2.02	(2)	(2)	17.7	6
2280	Hibernia	Morris	Quartz syenite	(2)	165	.21	3.2	12.5	18.8	12
303	Middle Valley	do	Diabase	(2)	(2)	(2)	1.5	26.7	(2)	(2)
405	do	do	do	(2)	187	.09	1.7	23.5	(2)	(2)
2902	do	do	Altered diabase	(2)	187	.19	2.5	16.0	18.7	32
5848	do	do	Hornblende gneiss	(2)	187	.17	2.8	14.3	18.7	26
12333	do	do	do	(2)	189	.11	3.4	11.8	18.0	15
250	Millington	do	Basalt	(2)	(2)	(2)	2.0	20.0	(2)	(2)
1708	do	do	Diabase	(2)	187	.61	2.7	14.8	17.7	18
11996	do	do	Basalt	(2)	185	.47	2.2	18.2	16.7	15
5571	Montville	do	Hypersthene granite	(2)	175	.27	3.5	11.4	18.4	11
12421	Morristown	do	Altered gabbro	(2)	170	.71	(2)	(2)	17.7	12
9921	Mount Hope	do	Pyroxene granite	(2)	178	.44	2.4	16.7	18.3	9
29265	Wharton (near)	do	Altered diorite	(2)	172	.34	4.2	9.5	18.7	12
29266	do	do	Augite diorite	(2)	178	.30	5.6	7.1	18.7	11
1717	Albion Place	Passaic	Basalt	(2)	184	.59	1.5	26.7	18.5	30
260	Great Notch	do	do	(2)	(2)	(2)	1.8	22.2	(2)	(2)
261	do	do	do	(2)	(2)	(2)	2.2	18.2	(2)	(2)
1730	Mountain View	do	do	(2)	184	.85	2.5	16.0	17.8	21
1716	Paterson	do	do	(2)	181	.39	1.9	21.1	18.7	25
1731	do	do	do	(2)	184	.59	1.6	25.0	18.3	31
478	Wanaque	do	Peridotite	(2)	200	.33	3.6	11.1	(2)	(2)
4952	Bellemead (near)	Somerset	Diabase	(2)	187	.15	1.6	25.0	18.8	34
287	Bernardsville	do	Limestone	(2)	(2)	(2)	4.1	9.8	(2)	(2)
1719	do	do	Altered diabase	(2)	178	.24	4.0	10.0	18.5	16
252	Bound Brook	do	Basalt	(2)	(2)	(2)	2.2	18.2	(2)	(2)
1619	do	do	do	(2)	181	1.81	1.5	26.7	19.1	27
4395	do	do	Altered diabase	(2)	181	.57	1.8	22.2	18.6	33
10472	do	do	do	(2)	184	.06	2.2	18.2	18.7	30
12101	do	do	Basalt	(2)	182	.24	2.6	15.4	18.7	35
14641	do	do	Diabase	(2)	186	.15	1.6	25.0	19.3	27
22202	do	do	Altered basalt	(2)	183	.05	2.3	17.4	18.0	31
288	Chimney Rock	do	Diabase	(2)	(2)	(2)	1.6	25.0	(2)	(2)
357	do	do	Basalt	(2)	187	.12	1.7	23.5	(2)	(2)
14973	do	do	do	(2)	180	.59	2.1	19.0	18.0	18
14982	do	do	Altered basalt	(2)	183	.29	2.2	18.2	18.7	21
14983	do	do	do	(2)	186	.21	1.8	22.2	18.0	41 [3] 22
23473	do	do	Diabase	33,850	186	.02	2.0	20.0	18.7	30
284	Neshanic (near)	do	do	(2)	(2)	(2)	2.0	20.0	(2)	(2)
2995	North Plainfield	do	Basalt	(2)	187	.41	1.7	23.5	19.1	34
248	Rocky Hill	do	Gabbro	(2)	(2)	(2)	2.1	19.0	(2)	(2)
285	do	do	Uralite gabbro	(2)	(2)	(2)	2.4	16.7	(2)	(2)
637	Somerville	do	Basalt tuff	(2)	147	6.32	14.7	2.7	(2)	(2)
669	do	do	do	(2)	150	5.69	9.3	4.3	(2)	(2)
1706	Warrenville (2 miles north of)	do	Diabase	(2)	187	.33	1.8	22.2	18.3	28
3504	Hamburg	Sussex	Altered syenite	(2)	184	.12	3.3	12.1	17.9	15
21142	Sussex (4 miles north of)	do	Siliceous dolomite	(2)	176	.30	2.9	13.8	16.0	20
350	New Providence	Union	Diabase	(2)	187	.39	1.7	23.5	(2)	(2)

[1] Exact location not known.

[2] Test not made.

[3] Test made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

NEW JERSEY—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
6585	New Providence	Union	Altered diabase	(2)	184	0.45	1.5	26.7	17.9	25
912	Springfield	do	Basalt	(2)	181	1.15	1.7	23.5	18.6	30
6595	do	do	do	(2)	181	.97	1.8	22.2	18.1	28
23443	do	do	do	43,715	182	.12	2.9	13.8	18.7	24
1707	Summit	do	do	(2)	184	.32	2.2	18.2	18.3	8
6586	do	do	Altered basalt	(2)	184	1.00	1.9	21.1	17.5	38
3145	Washington	Warren	Siliceous dolomite	(2)	178	.14	1.2	33.3	17.2	24
566	(1)	(1)	Diabase	(2)	187	.50	2.0	20.0	(2)	(2)
6495	(1)	(1)	Altered diabase	(2)	187	.44	1.9	21.1	18.5	31
7436	(1)	(1)	Diabase	31,600	187	.45	1.9	21.1	18.7	22

NEW MEXICO

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
28023	Isleta (near)	Bernalillo	Olivine basalt	(2)	160	2.97	6.8	5.9	(2)	(2)
28024	do	do	do	(2)	162	3.14	7.4	5.4	(2)	(2)
21819	Glenwood (near)	Catron	do	(2)	159	2.14	10.0	4.0	14.3	7
21820	do	do	Volcanic conglomerate	(2)	158	10.12	21.2	1.9	8.7	3
21821	do	do	Altered rhyolite	(2)	158	7.68	6.2	6.5	17.0	13 [3] 7
22414	Glenwood (7 miles south of)	do	Altered basalt	(2)	143	3.22	13.4	3.0	16.7 [3] 2.0	8 [3] 4
21112	Reserve	do	Volcanic breccia	(2)	138	9.28	12.1	3.3	12.0	4
21113	do	do	Weathered andesite	(2)	163	.84	4.0	10.0	17.0	12
22409	Reserve (20 miles south of)	do	Altered andesite	(2)	138	5.40	7.6	5.3	13.0 [3] 4.0	7 [3] 3
22410	Reserve (23 miles south of)	do	Altered trachyte	(2)	139	4.55	8.9	4.5	16.7	10
21822	Saliz Creek	do	Altered rhyolite	(2)	165	.98	4.4	9.1	17.7	6
26782	Brushy Canyon	do	Rhyolite	(2)	144	4.39	7.1	5.6	17.0	6
9768	Silver City	Grant	Altered granite porphyry	(2)	156	1.73	3.4	11.8	18.6	18
23006	Steins	Hidalgo	Volcanic sandstone	(2)	155	3.18	5.6	7.1	16.7	8
19450	Deming (8 miles west of)	Luna	Feldspathic quartzite	(2)	162	.92	3.1	12.9	(2)	(2)
26283	Gallup (near)	McKinley	Calcareous sandstone	(2)	162	1.86	3.3	12.1	16.7	9
17747	Mora	Mora	Pegmatitic granite	(2)	160	.82	14.4	2.8	(2)	(2)
21262	Weed (near)	Otero	Argillaceous limestone	(2)	150	3.96	(2)	(2)	17.0	4
23796	Tucumcari (south of)	Quay	Feldspathic sandstone	(2)	151	3.52	22.0	1.8	18.7	5
16202	Las Vegas (10 miles north of)	San Miguel	Siliceous clay limestone	(2)	166	.42	4.6	8.7	16.7	8
17736	Valley Ranch	do	Sericite gneiss	(2)	164	1.98	12.2	3.3	(2)	(2)
17737	do	do	Aplitic diorite	(2)	169	3.13	5.1	7.8	(2)	(2)

17739	do	do	Biotite schist	(2)	180	.26	3.8	10.5	16.7	14
24280	Canoncito (near)	Santa Fe	Limestone	(2)	169	.24	5.6	7.1	15.3	4
29268	do	do	do	(2)	169	.30	6.2	6.5	16.7	8
29269	do	do	do	(2)	168	.57	5.6	7.1	15.3	7
21260	Glorieta	do	do	(2)	169	.18	(2)	(2)	15.3	5
21259	Glorieta (¾ mile northeast of)	do	do	(2)	168	.27	(2)	(2)	14.7	4
23758	Glorieta (4 miles east of)	do	do	(2)	169	.43	5.2	7.7	15.7	7
29294	do	do	do	(2)	169	.64	6.1	6.6	17.3	8
24723	(4)	do	Volcanic sandstone	(2)	115	13.70	45.5	0.9	16.7	3
24726	(4)	do	Basalt	(2)	172	1.22	3.8	10.5	18.0	20
24423	Taos	Taos	Limestone	(2)	168	.38	5.4	7.4	16.3	5
22687	Taos (10 miles east of)	do	Feldspathic sandstone	(2)	159	1.91	6.0	6.7	14.3	7
24425	Taos (13 miles east of)	do	Siliceous limestone	(2)	170	.44	5.1	7.8	18.3	6
24426	Taos (15 miles east of)	do	Quartzite	(2)	163	.82	3.6	11.1	19.3	7
17292	Laguna (near)	Valencia	Calcareous sandstone	(2)	152	3.92	6.1	6.6	11.3	7
16452	Rio Puerco (near)	do	Olivine basalt	(2)	144	4.71	13.6	2.9	(2)	(2)

NEW YORK

1193	Albany	Albany	Calcareous sandstone	(2)	168	0.68	2.9	13.8	17.1	20
25203	Feura Bush	do	Limestone	29,100	169	.29	3.4	11.8	16.7	10
5673	Guilderland	do	Siliceous limestone	(2)	165	1.58	3.2	12.5	14.7	14
4989	South Bethlehem	do	Limestone	(2)	168	.19	4.8	8.3	16.1	10
21211	Leon	Cattaraugus	Feldspathic sandstone	(2)	154	4.62	4.2	9.5	15.0	10
26989	Chazy	Clinton	Limestone	34,660	169	.03	4.5	8.9	(2)	(2)
11499	Plattsburg	do	Marble	10,120	168	.32	7.8	5.1	11.7	3
6929	(1)	do	Limestone	(2)	175	.21	2.7	14.8	17.2	12
6455	(1)	do	Feldspathic quartzite	18,400	168	.53	4.7	8.5	18.2	9
6457	(1)	do	Plagioclase gneiss	18,500	168	.49	3.9	10.3	18.0	10
6458	(1)	do	Pyroxene gneiss	20,500	172	.51	3.4	11.8	18.0	13
340	Hudson	Columbia	Limestone	(2)	168	.50	5.3	7.5	(2)	(2)
385	do	do	Calcareous slate	(2)	168	.40	6.9	5.8	(2)	(2)
195	Cortland	Cortland	Hypersthene gabbro	(2)	(2)	(2)	5.4	7.4	(2)	(2)
5544	Camelot	Dutchess	Dolomite	(2)	175	.33	2.3	17.4	16.8	23
6764	New Hamburg	do	Siliceous dolomite	(2)	178	.24	2.3	17.4	17.3	20
21015	New Hamburg (near)	do	do	27,170	172	.42	2.5	16.0	17.0	13
2479	Poughkeepsie	do	Calcareous sandstone	(2)	172	.44	3.7	10.8	18.0	14
2480	do	do	do	(2)	172	.32	4.6	8.7	15.8	14
4960	Stoneco	do	Dolomitic marble	(2)	175	.16	2.3	17.4	16.7	7
13558	do	do	Siliceous dolomite	(2)	174	.25	2.6	15.4	16.3	29
11505	Wingdale	do	Dolomitic marble	(2)	177	.20	9.7	4.1	10.0	3
1327	(1)	do	Dolomitic sandstone	(2)	175	.21	(2)	(2)	17.5	19
2559	(1)	do	Biotite gneiss	(2)	172	.21	3.3	12.1	18.3	13
2560	(1)	do	Dolomite	(2)	178	1.40	3.2	12.5	17.5	12
2561	(1)	do	Quartzite	(2)	165	.83	2.7	14.8	(2)	(2)
8011	(1)	do	Dolomite	(2)	175	.29	5.0	8.0	17.6	10

[1] Exact location not known.
[2] Test not made.
[3] Test made on specimens drilled at different angles with bedding plane.
[4] Exact location known but can not be conveniently stated with reference to nearest town.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

NEW YORK—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
2939	Akron	Erie	Cherty limestone	(2)	168	0.35	5.9	6.8	18.8	7
16543	do	do	Limestone	(2)	168	.19	5.4	7.4	(2)	10
5225	Buffalo	do	do	(2)	168	1.27	3.4	11.8	16.2	16
12310	do	do	Cherty limestone	(2)	167	.26	5.7	7.0	17.5	11
12729	do	do	Limestone	(2)	169	.18	4.2	9.5	14.0	8
27369	do	do	Cherty limestone	31,500	168	.13	4.4	9.1	(2)	(2)
27370	do	do	do	32,620	169	.14	4.0	10.0	16.7	12
5872	(1)	do	do	16,700	165	.86	4.1	9.8	19.2	10
16544	(1)	do	Limestone	(2)	164	.85	6.2	6.5	16.0	10
16154	Jay	Essex	Gabbro	(2)	179	.31	2.7	14.8	17.6	10
1783	Keeseville	do	do	(2)	228	.74	(2)	(2)	17.0	16
8577	Gloversville	Fulton	Biotite gneiss	14,585	172	.19	3.7	10.8	18.0	10
11953	Mayfield	do	Argillaceous limestone	(2)	176	.26	3.7	10.8	16.0	16
410	LeRoy	Genesee	Flint	(2)	162	.20	7.2	5.6	(2)	(2)
12043	do	do	Cherty limestone	(2)	165	.36	5.7	7.0	19.3	8
26987	do	do	Limestone	{[3] 16,755 36,385}	167	.50	4.6	8.7	16.3	{7 [3] 11}
732	North LeRoy	do	do	(2)	168	.06	4.7	8.5	(2)	(2)
733	do	do	do	(2)	162	.40	5.1	7.8	(2)	(2)
12727	do	do	do	27,390	168	.30	3.9	10.3	15.3	13
24818	Stafford	do	do	(2)	168	.30	4.8	8.3	16.0	7
6755	Catskill	Greene	Calcareous sandstone	(2)	168	.94	3.7	10.8	13.1	9
23120	do	do	Feldspathic sandstone	(2)	167	.98	5.4	7.4	12.7	9
10097	Dolgeville	Herkimer	Dolomite	(2)	173	.66	3.1	12.9	15.3	10
532	Little Falls	do	Gneiss	(2)	165	.23	1.9	21.1	(2)	(2)
1768	do	do	Pyroxene gneiss	(2)	181	.12	6.1	6.6	17.3	18
1769	do	do	Gneiss	(2)	168	.33	9.1	4.4	15.7	12
1770	do	do	Pyroxene quartzite	(2)	187	.11	2.1	19.0	17.0	35
1771	do	do	Pyroxene gneiss	(2)	162	.13	7.6	5.3	14.7	7
1853	do	do	Crystalline dolomite	(2)	175	.50	5.2	7.7	12.2	7
11423	do	do	Hornblende gneiss	(2)	176	.51	3.7	10.8	18.0	13
12117	do	do	do	(2)	176	.83	4.5	8.9	17.3	8
26988	Newport	do	Limestone	28,770	169	.07	4.5	8.9	15.3	7
2542	Salisbury	do	Pyroxene quartzite	(2)	168	.40	2.3	17.4	18.7	21
2650	(1)	do	Limestone	(2)	147	6.29	7.4	5.4	6.3	3
7437	Alexandria Bay	Jefferson	Granite	27,200	165	.24	3.8	10.5	18.8	8
8833	do	do	do	26,180	165	(2)	(2)	(2)	19.0	14
8902	do	do	do	14,150	(2)	(2)	(2)	(2)	19.3	11

10236	do	do	Biotite granite	28,130	(2)	(2)	(2)	(2)	18.7	12
10319	do	do	Granite	28,900	163	.49	2.8	14.3	18.0	10
13890	do	do	do	(2)	(2)	(2)	2.9	13.8	18.7	11
18661	Chaumont	do	Limestone	(2)	169	.19	7.6	5.3	16.7	6
28690	do	do	do	(2)	169	.19	3.4	11.8	15.7	8
1896	Clayton	do	Granite	(2)	165	.11	2.5	16.0	18.9	14
18660	Felts Mills	do	Limestone	28,350	168	.60	4.9	8.2	14.7	12
18659	Watertown	do	do	(2)	168	.49	6.4	6.2	13.3	6
192	(1)	do	Gneiss	(2)	(2)	(2)	1.7	23.5	(2)	(2)
356	Brockport	Monroe	Fossiliferous limestone	(2)	168	.26	4.5	8.9	(2)	(2)
917	Honeoye Falls	do	Cherty limestone	(2)	168	.20	3.6	11.1	(2)	(2)
918	do	do	Dolomite	(2)	159	3.26	4.1	9.8	15.1	16
937	do	do	Nodular limestone	(2)	165	2.70	6.1	6.6	(2)	(2)
938	do	do	Dolomitic limestone	(2)	168	.27	3.6	11.1	15.6	9
1211	Amsterdam	Montgomery	Limestone	(2)	168	.44	2.2	18.2	16.5	18
1746	do	do	do	(2)	168	.22	4.8	8.3	15.2	9
11903	do	do	do	(2)	162	.29	4.9	8.2	15.3	14
1512	Pattersonville	do	Dolomitic limestone	(2)	175	1.27	2.6	15.4	15.8	15
1188	New York	New York	Phosphate rock	(2)	181	2.32	11.9	3.4	(2)	(2)
7434	(1)	do	Granite	(2)	162	.42	4.6	8.7	18.8	7
193	Lockport	Niagara	Medina sandstone	(2)	(2)	(2)	2.3	17.4	(2)	(2)
5224	Niagara Falls	do	Dolomite	(2)	175	.98	2.9	13.8	15.7	18
21308	Prospect	Oneida	Crystalline limestone	(2)	168	.32	(2)	(2)	12.0	4
21309	do	do	do	(2)	168	.33	6.8	5.9	11.7	4
22270	do	do	do	(2)	168	.27	6.9	5.8	11.3	5
22271	do	do	do	(2)	168	.27	6.5	6.2	12.3	5
22763	White Lake (2 miles north of)	do	Granite	35,500	164	.28	(2)	(2)	18.3	[3] 8 12
23072	White Lake (near)	do	do	(2)	164	.27	3.8	10.5	18.7	7
28691	Jamesville	Onondaga	Limestone	(2)	170	.17	3.8	10.5	16.0	11
28692	do	do	do	(2)	169	.15	3.2	12.5	15.0	9
28693	do	do	do	(2)	160	2.43	8.0	5.0	13.7	11
1919	Skaneateles	do	do	(2)	168	1.18	4.6	8.7	9.7	7
1920	do	do	do	(2)	168	.57	3.8	10.5	16.5	7
1296	Syracuse	do	do	(2)	172	.39	2.6	15.4	16.2	14
1297	do	do	do	(2)	172	.31	3.3	12.1	16.2	10
7005	(1)	do	Argillaceous limestone	(2)	162	.29	6.5	6.2	14.8	11
400	Canandaigua	Ontario	Limestone	(2)	168	.16	4.6	8.7	(2)	(2)
346	Geneva	do	Siliceous limestone	(2)	165	1.20	2.9	13.8	(2)	(2)
347	do	do	Limestone	(2)	172	.17	4.5	8.9	(2)	(2)
14462	Oaks Corners	do	Argillaceous limestone	(2)	166	1.63	3.8	10.5	14.3	8
18327	do	do	Argillaceous dolomite	32,135	164	2.30	4.8	8.3	18.7	24
6864	Phelps	do	Limestone	(2)	175	.67	3.2	12.5	16.0	6
6765	Cedarcliff	Orange	Siliceous dolomite	(2)	178	.23	4.2	9.5	17.1	5
13557	do	do	Dolomite	(2)	176	.17	3.1	12.9	14.0	19
21016	do	do	Siliceous dolomite	36,220	175	.30	2.9	13.8	15.3	10
6720	Cornwall	do	Gneissoid granite	(2)	168	.35	3.7	10.8	18.2	9
6772	do	do	Hornblende granite	(2)	165	.29	6.8	5.9	18.4	6
9619	Cornwall Landing	do	Granite	(2)	165	.14	2.1	19.0	19.3	7
791	Florida	do	Dolomitic sandstone	(2)	175	.10	3.7	10.8	17.4	24
3144	Highland Mills	do	Ferruginous sandstone	(2)	165	.47	2.5	16.0	18.8	11

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

NEW YORK—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
8908	Monroe	Orange	Dolomite	(2)	178	0.40	5.5	7.3	16.7	8
8909	do	do	Calcareous sandstone	(2)	168	1.16	3.0	13.3	18.7	19
8910	do	do	Sandstone	(2)	165	(2)	4.8	8.3	19.0	4
26037	Newburgh	do	Dolomite	(2)	176	.19	3.2	12.5	17.3	13
23797	Port Jervis	do	Sandstone	(2)	166	.66	2.5	16.0	18.7	15
1833	Warwick Township	do	Diorite	(2)	190	.39	5.7	7.0	18.3	9
4406	Albion	Orleans	Ferruginous sandstone	(2)	156	2.33	3.9	10.3	16.0	12
10042	do	do	Sandstone	20,000	(2)	(2)	3.4	11.8	17.3	9
17327	do	do	do	(2)	152	3.07	3.9	10.3	14.7	10
17328	do	do	do	(2)	150	3.56	4.0	10.0	15.0	9
20353	do	do	do	24,345	149	3.59	4.3	9.3	15.3	9
5630	Medina	do	Ferruginous sandstone	21,800	(2)	(2)	(2)	(2)	16.5	11
2175	Oswego	Oswego	Pyroxene quartzite	(2)	168	.34	7.0	5.7	17.2	10
2176	do	do	Quartzite	(2)	165	.34	7.6	5.3	18.9	13
2177	do	do	Feldspathic quartzite	(2)	159	1.53	3.2	12.5	18.2	21
2649	Cooperstown	Otsego	Sandstone	(2)	159	1.83	(2)	(2)	14.8	12
8041	Garrison	Putnam	Granite	(2)	165	.28	5.1	7.8	18.7	11
12714	Oregon	do	do	(2)	166	.27	5.2	7.7	18.7	9
5608	Brainard Station	Rensselaer	Feldspathic sandstone	(2)	168	.18	2.1	19.0	17.9	14
2817	Hoosick Falls	do	Limestone	(2)	172	.17	3.2	12.5	16.8	12
2818	do	do	do	(2)	175	.32	3.1	12.9	17.0	11
2880	do	do	Calcareous sandstone	(2)	172	.28	2.8	14.3	18.9	20
28132	Clarkstown Township	Rockland	Diabase	34,400	185	.15	4.2	9.5	18.0	14
28133	do	do	do	30,590	183	.18	4.5	8.9	18.0	18
5588	Congers	do	Gabbroitic diabase	(2)	184	.79	1.6	25.0	18.3	23
49	Haverstraw	do	Diabase	(2)	(2)	(2)	2.7	14.8	(2)	(2)
6733	do	do	do	(2)	184	.82	2.3	17.4	17.8	18
6734	do	do	do	(2)	184	.39	2.3	17.4	18.0	23
6735	do	do	Gabbroitic diabase	(2)	184	.56	2.6	15.4	18.1	17
4401	Nyack	do	Diabase	(2)	184	.28	5.1	7.8	17.7	20
95	Rockland Lake	do	do	(2)	(2)	(2)	2.3	17.4	(2)	(2)
335	do	do	do	(2)	193	.51	3.0	13.3	(2)	(2)
1321	do	do	do	(2)	184	.39	1.9	21.1	16.1	27
1561	do	do	do	(2)	184	.39	1.9	21.1	16.1	27
2904	do	do	do	(2)	184	.68	2.7	14.8	18.2	17
4962	do	do	Gabbroitic diabase	(2)	181	.49	2.6	15.4	18.3	33
4964	do	do	do	(2)	184	.23	2.4	16.7	18.1	21
10093	do	do	do	(2)	187	.19	3.0	13.3	19.0	13
10094	do	do	do	(2)	183	.27	3.6	11.1	19.0	12

10771	do	do	do	(2)	189	.28	3.0	13.3	18.7	19
5315	Suffern	do	Altered diabase	(2)	184	1.45	2.5	16.0	15.8	9
45	Tomkins Cove	do	Siliceous limestone	(2)	175	(2)	5.1	7.8	(2)	(2)
127	do	do	Limestone	(2)	175	(2)	6.3	6.3	(2)	(2)
470	do	do	do	(2)	168	.28	5.9	6.8	(2)	(2)
6774	do	do	Siliceous dolomite	(2)	178	.26	4.3	9.3	16.4	9
6775	do	do	Dolomite	(2)	175	.44	4.9	8.2	12.7	7
9462	do	do	Siliceous dolomite	(2)	175	.35	4.8	8.3	16.7	13
9463	do	do	Siliceous marble	(2)	178	.22	4.9	8.2	18.3	4
16032	do	do	Argillaceous dolomite	(2)	173	.50	7.8	5.1	(2)	(2)
26723	do	do	Dolomitic marble	(2)	176	.35	5.0	8.0	16.7	5
26724	do	do	Dolomite	(2)	177	.07	5.1	7.8	16.7	7
26725	do	do	do	(2)	177	.08	4.5	8.9	17.3	7
26726	do	do	do	(2)	175	.37	5.1	7.8	(2)	(2)
29371	do	do	Dolomitic marble	(2)	172	.14	4.9	8.2	18.0	7
4996	Upper Nyack	do	Diabase	(2)	187	.16	2.5	16.0	18.5	23
6480	West Nyack	do	Altered diabase	(2)	181	.71	2.2	18.2	18.2	24
7805	(1)	do	Diabase	(2)	187	.35	2.4	16.7	18.0	18
8012	(1)	do	Gabbroitic diabase	(2)	184	.16	4.6	8.7	18.5	14
8013	(1)	do	Siliceous dolomite	(2)	175	.26	6.9	5.8	17.2	13
11504	Gouverneur	Saint Lawrence	Marble	10,590	170	.39	(2)	(2)	10.3	2
21021	do	do	do	16,890	169	.29	7.0	5.7	14.7	4
21022	do	do	do	15,240	170	.33	7.9	5.1	10.3	4
23514	Hammond	do	Sandstone	20,455	152	3.67	6.3	6.3	17.7	7
10191	Hopkinton	do	do	35,240	157	2.02	2.8	14.3	18.0	12
4328	Massena	do	Siliceous dolomite	(2)	175	.44	4.3	9.3	16.5	16
4330	do	do	do	(2)	175	.84	3.1	12.9	16.8	20
1524	Saratoga Springs	Saratoga	Hornblende gneiss	(2)	190	.28	4.7	8.5	16.9	16
1525	do	do	Altered diabase	(2)	175	.42	2.3	17.4	17.6	18
1689	Stillwater	do	Feldspathic sandstone	(2)	168	.65	2.8	14.3	17.5	11
94	Duanesburg	Schenectady	Sandstone	(2)	(2)	(2)	3.8	10.5	(2)	(2)
1538	Cobleskill	Schoharie	Limestone	(2)	168	.52	4.5	8.9	13.7	7
188	Howes Cave	do	do	(2)	(2)	(2)	4.2	9.5	(2)	(2)
24942	Corning	Steuben	Sandstone	35,780	159	2.71	(2)	(2)	16.0	15
24943	do	do	Feldspathic sandstone	32,050	161	1.62	2.4	16.7	16.0	16
24953	do	do	do	32,970	159	1.42	5.0	8.0	17.3	23
25311	do	do	Slate	(2)	165	1.25	11.6	3.4	(2)	(2)
26991	do	do	Sandstone	40,775 [3] 33,300	162	1.05	2.8	14.3	15.3	22
382	Deer Park	Suffolk	Sandy shale	(2)	165	1.96	4.7	8.5	(2)	(2)
11182	Callicoon	Sullivan	Feldspathic sandstone	22,620	166	1.04	3.0	13.3	14.7	13
26990	Monticello	do	Limestone	15,545	(2)	(2)	(2)	(2)	18.7	7
11181	Tusten	do	Feldspathic sandstone	26,300	171	.64	3.3	12.1	15.3	14
1667	Smithboro	Tioga	do	(2)	162	2.09	2.7	14.8	17.3	17
2027	East Kingston	Ulster	Calcareous sandstone	(2)	168	.24	2.8	14.3	15.0	13
1693	Kingston	do	Limestone	(2)	172	.11	3.1	12.9	14.8	6
5222	do	do	do	(2)	168	.33	4.0	10.0	16.8	8
5223	do	do	do	(2)	168	.23	5.3	7.5	16.7	7
6363	do	do	Feldspathic sandstone	(2)	156	1.00	3.1	12.9	17.0	16
3932	Kingston (near)	do	Siliceous limestone	(2)	168	.45	4.8	8.3	15.1	7

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

NEW YORK—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs per cu. ft.*				
5574	Rondout	Ulster	Limestone	(2)	168	0.39	5.0	8.0	16.4	10
6634	Ulster Park	do	Calcareous sandstone	(2)	168	.89	5.3	7.5	13.3	16
1100	West Camp	do	Limestone	(2)	168	.26	3.0	13.3	16.9	5
1257	Middle Falls	Washington	do	(2)	178	.21	2.2	18.2	16.7	19
6732	Smiths Basin	do	Siliceous dolomite	(2)	175	.23	2.7	14.8	18.3	14
983	Newark	Wayne	Dolomitic limestone	(2)	159	2.10	5.3	7.5	(2)	(2)
984	do	do	Limestone	(2)	172	.42	4.9	8.2	12.2	(2)
20820	Ontario	do	Dolomite	(2)	176	.45	4.2	9.5	14.7	9
941	Briar Cliff Manor	Westchester	Garnetiferous hornblende schist.	(2)	190	.26	2.5	16.0	17.2	22
2160	Cortland Township	do	Diorite	(2)	190	.56	3.0	13.3	16.7	10
2161	do	do	do	(2)	184	.42	3.8	10.5	16.6	8
10909	Peekskill (near)	do	Hypersthene syenite	(2)	179	.62	3.5	11.4	17.0	9
20171	Verplanck	do	Dolomitic marble	(2)	177	.26	5.6	7.1	13.0	4
20172	do	do	do	(2)	177	.21	5.1	7.8	13.0	5
20173	do	do	do	(2)	175	.28	4.2	9.5	12.0	4
21031	do	do	do	23,310	177	1.01	4.0	10.0	14.3	4
11928	Verplanck Point	do	do	(2)	176	.46	6.0	6.7	18.7	3
11199	Yorktown Township	do	Granite	16,200	168	.77	5.8	6.9	18.0	5
404	Bellona	Yates	Limestone	(2)	168	.14	5.3	7.5	(2)	(2)
1118	(1)	do	do	(2)	168	.22	4.3	9.3	17.3	9

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7771	Burlington	Alamance	Altered gabbro	(2)	184	0.40	4.1	9.8	17.8	12
822	Haw River	do	Chlorite epidote schist	(2)	175	.06	3.1	12.9	18.5	34
15877	do	do	Diabase	(2)	181	.53	3.5	11.4	18.0	16
19788	Hiddenite (5 miles west of)	Alexander	Granite gneiss	(2)	164	.61	7.2	5.6	18.7	6
20189	Sparta	Alleghany	Biotite gneiss	(2)	171	.35	4.4	9.1	18.7	10
20196	(1)	do	Quartz	(2)	162	.61	12.8	3.1	17.7	3
825	Wadesboro	Anson	Diabase	(2)	187	.06	1.9	21.1	18.4	27
17048	Jefferson	Ashe	Hornblende gneiss	(2)	185	.89	5.2	7.7	12.0	6
9226	Cranberry	Avery	Peridotite	(2)	240	.40	3.5	11.4	16.7	9
10193	do	do	Hornblende gneiss	(2)	208	.70	4.3	9.3	(2)	(2)
10194	do	do	do	(2)	192	.48	5.5	7.3	(2)	(2)
4991	Washington	Beaufort	Siliceous shell limestone	(2)	140	2.75	33.6	1.2	17.6	5

627	Asheville	Buncombe	Granite porphyry	(2)	168	.26	2.2	18.2	(2)	(2)
628	do	do	Diorite gneiss	(2)	184	.33	2.3	17.4	(2)	(2)
777	do	do	Granite gneiss	(2)	168	.15	3.7	10.8	(2)	(2)
4963	do	do	Dolomite	(2)	(2)	(2)	4.0	10.0	17.3	14
8133	do	do	Granite	(2)	165	.31	2.8	14.3	18.4	11
8134	do	do	Aplitic granite	(2)	165	.24	2.2	18.2	18.7	7
8135	do	do	Biotite gneiss	(2)	178	.39	5.6	7.1	16.6	9
9858	do	do	do	(2)	168	.26	4.4	9.1	19.3	7
10972	do	do	do	(2)	168	1.35	2.7	14.8	18.0	10
17869	do	do	Granite	(2)	165	.56	3.0	13.3	19.3	11
469	Asheville (near)	do	Hornblende schist	(2)	200	.15	5.7	7.0	(2)	(2)
705	do	do	do	(2)	193	.57	3.6	11.1	(2)	(2)
778	do	do	Biotite schist	(2)	172	.09	3.4	11.8	(2)	(2)
28795	do	do	Syenite	26,990	166	.48	(2)	(2)	18.0	8
13901	Craggy	do	Granite	(2)	163	.49	2.8	14.3	18.5	12
809	Montford	do	Micro granite	(2)	165	.11	2.3	17.4	(2)	(2)
10973	(1)	do	Biotite gneiss	(2)	172	.67	3.5	11.4	18.0	13
11344	(1)	do	do	(2)	166	.33	4.1	9.8	17.3	7
11345	(1)	do	do	(2)	171	.24	3.5	11.4	16.7	10
535	Morganton	Burke	Basalt	(2)	190	.15	2.0	20.0	(2)	(2)
434	Concord	Cabarrus	Micro granite	(2)	162	.33	1.8	22.2	(2)	(2)
436	do	do	Augite syenite	(2)	165	.29	5.7	7.0	(2)	(2)
812	do	do	Hornblende granite	(2)	172	.14	2.2	18.2	18.5	22
6566	do	do	Augite syenite	(2)	168	.24	5.0	8.0	18.3	11
513	Concord (near)	do	Syenite	(2)	168	.28	2.8	14.3	(2)	(2)
16071	Granite Falls (near)	Caldwell	Biotite gneiss	(2)	166	.76	3.1	12.9	16.7	11
16514	Pelham (near)	Caswell	Granite gneiss	(2)	162	.76	3.7	10.8	(2)	12
17474	do	do	do	(2)	162	.75	4.5	8.9	18.0	9
20141	Pelham (3 miles north of)	do	do	28,580	161	.59	2.9	13.8	18.3	8
24902	Pelham (near)	do	do	28,100	163	.71	4.5	8.9	19.3	15
19789	Yanceyville (near)	do	Biotite gneiss	(2)	168	.62	6.4	6.2	18.3	8
18980	(1)	do	Sericite gneiss	(2)	162	.75	4.1	9.8	18.0	7
4717	Hickory	Catawba	Granite gneiss	(2)	168	.24	6.9	5.8	18.3	4
4723	do	do	do	(2)	172	.24	6.3	6.3	17.9	8
839	Siler City (4 miles northwest of)	Chatham	Chlorite epidote schist	(2)	175	.08	2.3	17.4	17.5	(2)
17466	(1)	do	Altered andesite	(2)	180	.20	1.7	23.5	17.7	45
3382	Andrews	Cherokee	Quartzite	(2)	165	.31	4.9	8.2	19.3	15
3383	do	do	Marble	(2)	172	.16	6.0	6.7	14.1	3
6196	Murphy	do	Mica schist	(2)	175	.43	4.1	9.8	16.2	7
6197	do	do	Sericite schist	(2)	172	.31	6.1	6.6	16.2	10
6198	do	do	Sandstone	(2)	162	.54	3.2	12.5	(2)	(2)
6199	do	do	Marble	(2)	172	.28	4.4	9.1	14.7	6
7022	Regal	do	do	(2)	171	.06	4.7	8.5	14.0	4
11507	do	do	do	(2)	169	.25	6.1	6.6	12.3	3
2576	Shelby	Cleveland	Biotite gneiss	(2)	175	.26	11.3	3.5	17.8	7
381	New Bern	Craven	Fossiliferous limestone	(2)	137	1.93	34.2	1.2	(2)	(2)
13027	do	do	Shell limestone	(2)	(2)	(2)	49.0	0.8	(2)	(2)
24488	New Bern (10 miles from)	do	do	(2)	140	3.89	22.5	1.7	(2)	(2)
7775	Newsom	Davidson	Rhyolite	(2)	165	.23	2.7	14.8	19.5	20
8710	do	do	Altered rhyolite	(2)	175	.47	4.1	9.8	19.3	33
20046	do	do	do	(2)	165	.10	2.8	14.3	18.7	32

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

NORTH CAROLINA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu ft.*				
23509	Newsom	Davidson	Epidote quartzite	(2)	177	0.21	2.4	16.7	19.0	19 [3] 30
23510	do	do	Siliceous slate	(2)	175	.09	3.4	11.8	17.3	19
3209	Thomasville (5 miles from)	do	Altered andesite	(2)	181	.49	2.7	14.8	18.3	32
2988	Durham	Durham	Hornblende epidote schist	(2)	184	.42	(2)	(2)	17.3	14
26894	do	do	Diabase	(2)	185	.15	3.1	12.9	18.0	17
14753	(1)	do	Gneissoid granite	(2)	165	.43	4.1	9.8	18.0	7
813	Bethania	Forsyth	Olivine basalt	(2)	190	.04	3.0	13.3	18.3	39
1403	Winston-Salem	do	Granite gneiss	(2)	165	.08	1.9	21.1	18.5	19
1404	do	do	Epidote	(2)	187	.82	3.9	10.3	18.0	15
16896	do	do	Biotite gneiss	(2)	170	.43	4.3	9.3	16.7	8
7561	Winston-Salem (near)	do	Granite	(2)	165	.49	5.7	7.0	17.4	5
21768	Winston-Salem (5 miles south of)	do	Biotite granite	22,890	165	.62	6.1	6.6	16.7	5
23511	Winston-Salem (3 miles east of)	do	Micaceous granite	25,575	165	.44	6.5	6.2	19.3	9
23078	(1)	do	Mica gneiss	(2)	169	.56	5.2	7.7	17.7	6
838	Franklinton (3½ miles east of)	Franklin	Olivine diabase	(2)	184	.35	2.7	14.8	17.4	13
14403	Belmont	Gaston	Biotite granite	(2)	171	.39	3.5	11.4	17.8	8
12180	Belmont (near)	do	Aplitic granite	(2)	173	.85	2.9	13.8	(2)	(2)
8503	Gastonia	do	Quartzite	(2)	175	.51	2.6	15.4	18.8	12
8882	do	do	Aplitic granite	(2)	175	.13	2.5	16.0	(2)	(2)
817	Greensboro	Guilford	Granite	(2)	172	.11	2.6	15.4	(2)	(2)
821	do	do	Diorite	(2)	193	.09	2.9	13.8	(2)	(2)
15775	do	do	Quartz and quartzite	(2)	164	.18	8.6	4.7	(2)	(2)
818	Greensboro (3 miles northwest of)	do	Dolomitic sandstone	(2)	178	.14	1.9	21.1	17.2	27
819	Greensboro (1 mile northwest of)	do	Diabase	(2)	187	.14	1.6	25.0	(2)	(2)
823	do	do	Diorite	(2)	184	.06	2.3	17.4	18.4	24
820	Greensboro (2 miles southeast of)	do	Gabbro	(2)	193	.21	3.5	11.4	(2)	(2)
815	Jamestown (1 mile south of)	do	Diabase	(2)	184	.11	2.1	19.0	18.1	27
816	do	do	Granite	(2)	168	.15	3.4	11.8	18.0	(2)
19979	Summerfield	do	Granite schist	(2)	167	.50	3.5	11.4	18.0	9
15878	(1)	do	Amphibolite	(2)	190	.42	2.8	14.3	18.7	18
16536	Littleton	Halifax	Hornblende quartzite	(2)	170	.33	2.7	14.8	(2)	17
20045	do	do	Hornblende gneiss	(2)	169	.50	2.8	14.3	18.7	11
12770	Canton (2 miles east of)	Haywood	Granite gneiss	(2)	157	1.16	20.3	2.0	[4] 17.3	[3] 6
11751	Waynesville	do	Biotite gneiss	(2)	173	.76	5.7	7.0	18.0	5
810	Balfour	Henderson	Granite gneiss	(2)	165	.11	3.2	12.5	(2)	(2)
2755	Hendersonville (2 miles northwest of)	do	do	(2)	165	.23	3.1	12.9	18.5	10
8576	Mooresville (near)	Iredell	Biotite granite	26,000	168	.40	3.0	13.3	18.6	11
19653	Statesville	do	Biotite gneiss	20,235	163	.59	6.0	6.7	17.3	7

6793	Sylva	Jackson	Biotite schist	(2)	184	.60	6.4	6.2	15.1	7
6794	do	do	Biotite gneiss	(2)	168	.33	4.3	9.3	18.4	7
6795	do	do	do	(2)	187	.28	6.1	6.6	17.2	8
13050	Dover (4 miles southwest of)	Jones	Fossiliferous limestone	(2)	150	3.85	10.6	3.8	(2)	(2)
12883	Pollocksville	do	Shell limestone	(2)	(2)	(2)	16.9	2.4	(2)	(2)
20043	Osgood	Lee	Siliceous slate	(2)	174	.34	2.8	14.3	13.7	11
19986	Sanford	do	Altered basalt	(2)	180	.26	2.9	13.8	17.0	23
11397	Ashford	McDowell	Dolomitic marble	(2)	178	.41	4.5	8.9	16.0	8
867	Marion	do	Biotite gneiss	(2)	168	.20	2.3	17.4	17.0	19
868	do	do	Dolomite	(2)	175	.27	4.7	8.5	(2)	(2)
2190	Old Fort	do	Sericite gneiss	(2)	168	.21	2.8	14.3	18.3	13
20150	do	do	Altered granite porphyry	(2)	169	.44	4.3	9.3	18.3	9
2124	Old Fort (near)	do	Sericite gneiss	(2)	172	.10	3.8	10.5	19.0	13
5373	(1)	do	Granite gneiss	(2)	168	.28	3.5	11.4	18.8	15
6882	Franklin	Macon	Biotite gneiss	(2)	172	.42	5.4	7.4	18.0	6
6883	do	do	do	(2)	172	.28	11.0	3.6	9.5	5
6884	do	do	Feldspathic quartzite	(2)	172	.27	3.3	12.1	17.2	8
504	Hot Springs	Madison	Dolomite	(2)	178	.13	4.2	9.5	(2)	(2)
771	do	do	Quartzite	(2)	165	.17	3.3	12.1	(2)	(2)
772	do	do	Dolomite	(2)	178	.22	5.5	7.3	(2)	(2)
18044	Hot Springs (1 mile west of)	do	do	(2)	181	.25	3.5	11.4	15.0	11
14514	Carson (near)	Mecklenburg	Weathered granite	(2)	163	.37	4.5	8.9	18.0	8
14515	do	do	Quartzite	(2)	166	.54	2.3	17.4	(2)	(2)
14516	do	do	Uralite diabase	(2)	182	.80	2.9	13.8	18.7	14
811	Charlotte	do	Granite	(2)	168	.15	2.3	17.4	18.8	(2)
14633	Charlotte (near)	do	Epidote quartzite	(2)	174	.85	3.0	13.3	18.7	29
17284	Matthews	do	Granite gneiss	(2)	167	.52	2.2	18.2	(2)	(2)
15285	(1)	do	Altered biotite granite	(2)	(5)	(5)	3.7	10.8	18.3	26
913	Toecane	Mitchell	Micaceous eclogite	(2)	196	.27	2.1	19.0	17.4	31
16869	(1)	do	Granite gneiss	(2)	168	.37	3.7	10.8	18.3	9
17465	Swift Island Ferry	Montgomery	Amphibolite	(2)	185	.98	3.8	10.5	18.0	17
840	Carthage (7 miles south of)	Moore	Olivine diabase	(2)	184	.28	2.8	14.3	17.9	16
841	Carthage (¾ mile north of)	do	Diabase	(2)	178	.64	2.7	14.8	18.0	18
2768	Rocky Mount	Nash	Granite	(2)	165	.28	3.4	11.8	18.7	18
7352	(1)	do	Biotite granite	(2)	165	.29	5.0	8.0	19.5	8
7353	(1)	do	Altered granite	(2)	162	3.00	4.9	8.2	18.8	4
12888	Castle Hayne	New Hanover	Limestone	(2)	152	4.88	9.8	4.1	12.7	5
402	Wilmington	do	Fossiliferous limestone	(2)	150	2.77	9.9	4.0	(2)	(2)
834	Chapel Hill (1½ miles east of)	Orange	Olivine basalt	(2)	187	.14	2.7	14.8	(2)	(2)
835	Hillsboro (1 mile southwest of)	do	Altered diabase	(2)	184	.08	1.4	28.6	18.9	50
2465	Lynn (near)	Polk	Granite	(2)	165	.67	4.1	9.8	17.5	8
5430	Rockcliff	do	Granite gneiss	(2)	172	.33	6.6	6.1	17.8	(2)
2753	Tryon	do	Biotite granite	(2)	165	.36	5.8	6.9	16.5	10
514	Asheboro	Randolph	Felsite	(2)	168	.02	1.9	21.1	(2)	(2)
19980	do	do	Hornblende epidosite	(2)	191	.47	2.2	18.2	18.0	14
19419	Franklinville	do	Altered rhyolite tuff	(2)	171	.27	2.6	15.4	18.3	18
19909	do	do	Fragmental rhyolite	(2)	171	.15	2.8	14.3	18.7	24
6589	(1)	do	Feldspathic quartzite	(2)	168	.11	2.3	17.4	19.2	53
826	Rockingham	Richmond	Hypersthene gabbro	(2)	187	.04	3.2	12.5	16.4	14
24823	Woodley	do	Muscovite granite	(2)	(2)	(2)	(2)	(2)	18.7	8

[1] Exact location not known.
[2] Test not made.
[3] Tests made on specimens drilled at different angles with bedding plane.
[4] Not indicative of entire sample.
[5] Test believed incorrect; not reported.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

NORTH CAROLINA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
22332	Reidsville	Rockingham	Granite	(2)	164	0.62	4.2	9.5	18.5	6
4109	Ruffin (near)	do	Granite gneiss	(2)	162	.47	4.3	9.3	18.8	12
5449	Stacey	do	Micro granite	(2)	165	.19	2.2	18.2	18.8	16
5955	do	do	Granite gneiss	23,215	165	.20	2.4	16.7	19.3	14
20527	do	do	Granite	39,170	163	.61	3.4	11.8	18.7	10
20528	do	do	do	41,410	165	.29	2.9	13.8	18.3	9
7560	Bear Poplar	Rowan	Hypersthene gabbro	(2)	181	.34	3.9	10.3	18.5	7
2189	Granite Quarry	do	Granite	(2)	165	.19	2.3	17.4	19.0	17
2385	do	do	do	(2)	165	.25	2.4	16.7	18.7	13
9892	do	do	do	21,125	162	.41	4.6	8.7	19.3	10
15909	do	do	do	(2)	163	.57	3.5	11.4	18.0	15
25918	do	do	do	31,880	163	.33	1.5	26.7	18.7	12
26768-A	do	do	do	37,740	164	.31	2.8	14.3	19.3	13
26768-B	do	do	do	39,000	164	.31	2.8	14.3	19.3	19
808	Granite Quarry (near)	do	do	(2)	165	.12	1.9	21.1	(2)	(2)
10306	do	do	do	34,860	164	.22	2.0	20.0	18.7	11
24976	do	do	do	31,345	(2)	(2)	4.4	9.1	(2)	(2)
1149	Salisbury	do	do	(2)	165	.31	2.6	15.4	(2)	(2)
5496	do	do	do	36,950	(2)	(2)	(2)	(2)	18.8	13
5719	do	do	do	37,340	(2)	(2)	(2)	(2)	19.4	14
6414	do	do	do	29,080	(2)	(2)	2.6	15.4	19.0	16
7440	do	do	do	(2)	165	.26	3.2	12.5	19.0	9
9618	do	do	do	(2)	162	.31	2.9	13.8	19.3	10
11415	do	do	do	28,340	(2)	(2)	(2)	(2)	19.3	7
13972	do	do	Gneissoid granite	(2)	(2)	(2)	3.3	12.1	19.0	10
22477	Woodleaf	do	Granite	30,790	164	.49	2.4	16.7	17.7	10
27446	do	do	do	28,420	166	.40	2.4	16.7	18.7	12
10412	(1)	do	do	20,930	164	.51	2.8	14.3	19.3	9
10413	(1)	do	do	23,580	162	.43	3.3	12.1	19.0	7
10770	(1)	do	do	17,800	164	.43	5.2	7.7	19.3	10
11200	(1)	do	do	26,400	162	.44	2.2	18.2	18.7	9
20119	(1)	do	do	37,820	163	.55	3.3	12.1	18.0	11
6071	Bostic	Rutherford	Biotite gneiss	16,100	168	.28	8.0	5.0	17.3	6
11706	Harris (near)	do	do	12,290	166	.61	7.1	5.6	16.3	6
12116	do	do	Biotite granite	13,680	166	.56	5.1	7.8	17.3	4
5866	New London	Stanly	Epidosite	(2)	172	.23	2.7	14.8	18.7	29
5867	do	do	Steatite (soapstone)	(2)	178	1.50	6.9	5.8	4.3	6
5868	do	do	do	(2)	159	2.52	9.8	4.1	(2)	(2)

21273	Norwood (3 miles south of)	do	Argillaceous sandstone	(2)	170	1.30	4.8	8.3	10.2	5
764	Elkin	Surry	Hornblende schist	(2)	190	.20	4.4	9.1	(2)	(2)
5497	Mount Airy	do	Granite	20,115	(2)	(2)	(2)	(2)	17.8	8
7433	do	do	do	15,200	165	.33	6.0	6.7	19.7	4
8816	do	do	do	(2)	165	.27	4.2	9.5	18.2	7
11420	do	do	do	23,990	(2)	(2)	(2)	(2)	18.7	6
13527	do	do	do	(2)	162	.61	5.4	7.4	(2)	11
13842	do	do	do	(2)	(2)	(2)	4.3	9.3	18.0	9
14891	do	do	do	(2)	164	.71	4.6	8.7	18.0	6
20120	do	do	do	26,375	162	.79	5.0	8.0	18.3	7
23593	do	do	do	24,130	167	.59	4.7	8.5	18.3	7
814	Mount Airy (1½ miles northeast)	do	do	(2)	165	.23	4.3	9.3	(2)	(2)
23158	Mount Airy (near)	do	do	23,990	163	.72	4.2	9.5	18.7	8
6977	Hewitts	Swain	Dolomitic marble	(2)	181	.21	6.0	6.7	15.2	10
8295	do	do	Dolomite	(2)	178	.34	3.9	10.3	12.5	3
19024	Davidsons River (near)	Transylvania	Biotite gneiss	(2)	169	1.31	7.0	5.7	14.0	4
19025	do	do	do	(2)	166	.55	4.2	9.5	17.7	8
19026	do	do	do	(2)	165	.65	4.2	9.5	18.3	9
19027	do	do	do	(2)	166	.52	4.9	8.2	17.7	7
1787	Lake Toxaway	do	do	(2)	165	.43	4.5	8.9	18.3	10
1788	do	do	do	(2)	162	.96	6.3	6.3	12.7	10
1789	do	do	Hornblende schist	(2)	187	1.26	7.0	5.7	9.8	7
20892	Penrose	do	Biotite gneiss	(2)	165	.59	4.1	9.8	18.7	8
6301	Monroe	Union	Sandstone	(2)	172	.40	2.7	14.8	12.5	11
15442	do	do	Siliceous slate	(2)	173	.60	3.0	13.3	12.3	10
15078	Greystone	Vance	Gneissoid granite	35,140	163	.72	3.6	11.1	18.0	7
15079	do	do	do	31,050	162	.79	3.4	11.8	18.0	7
15474	do	do	do	(2)	167	.51	4.0	10.0	17.7	6
23016	do	do	Biotite granite	22,900	162	.91	4.2	9.5	18.3	5
23017	do	do	do	24,490	166	.47	3.2	12.5	18.3	6
1274	Henderson	do	Granite gneiss	(2)	165	.31	3.8	10.5	17.4	7
1275	do	do	Granite	(2)	165	.40	(2)	(2)	17.3	7
1276	do	do	do	(2)	165	.33	3.9	10.3	17.5	6
1277	do	do	Gneissoid granite	(2)	165	.38	5.0	8.0	16.6	8
14244	Henderson (near)	do	do	(2)	170	.45	2.8	14.3	18.0	6
6900	Middleburg	do	Granite gneiss	19,730	165	.19	4.5	8.9	18.3	7
8927	do	do	do	(2)	165	.52	2.6	15.4	18.2	6
23015	do	do	Gneissoid granite	26,175	165	.53	4.2	9.5	18.3	6
19787	Cary (3 miles west of)	Wake	Biotite granite	(2)	165	.56	4.9	8.2	18.0	8
16004	Raleigh	do	Hornblende granite	(2)	168	.65	4.9	8.2	18.7	9
23105	do	do	Biotite granite	26,590	164	.66	4.7	8.5	18.7	8
14175	Raleigh (near)	do	do	(2)	163	.47	3.2	12.5	(2)	(2)
15012	do	do	Olivine diabase	(2)	186	.38	1.7	23.5	18.0	19
19654	Rolesville	do	Biotite granite	21,790	167	.53	7.0	5.7	18.0	7
24536	do	do	Granite	25,170	165	.36	5.6	7.1	19.5	6
23001	Wake Forest	do	Biotite granite	20,925	165	.51	5.6	7.1	18.0	8
24964	do	do	do	26,135	165	.41	4.2	9.5	17.3	7
22722	Wake Forest (7 miles east of)	do	do	19,120	164	.56	4.3	9.3	19.0	6
11402	Wendell	do	do	(2)	164	1.04	4.3	9.3	17.3	4
14174	do	do	do	(2)	(2)	(2)	(2)	(2)	18.0	5
8419	(1)	do	do	14,160	165	.38	3.0	13.3	19.0	7

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

NORTH CAROLINA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
16256	Manson	Warren	Gneissoid granite	(2)	164	0.76	4.2	9.5	17.0	6
3807	Wise	do	Granite	18,240	165	.15	2.7	14.8	18.9	8
3808	do	do	do	18,560	165	.20	2.3	17.4	18.8	12
6901	do	do	Biotite granite	21,100	165	.24	4.3	9.3	18.6	9
6284	North Wilkesboro	Wilkes	Mica gneiss	(2)	175	.15	3.9	10.3	17.5	8
431	Elm City (2 miles northeast of)	Wilson	Granite	(2)	165	.37	2.8	14.3	(2)	(2)
9038	Old Neverson	do	do	16,070	165	.41	4.6	8.7	19.0	10
11566	do	do	do	21,920	165	.34	5.4	7.4	18.7	9
24472	do	do	Altered granite	28,430	165	.30	4.1	9.8	19.0	8
2178	Wilson	do	Granite	(2)	165	.14	5.6	7.1	17.9	4
2179	do	do	Biotite granite	(2)	162	.97	9.8	4.1	17.5	4
2181	do	do	do	(2)	165	.50	5.2	7.7	17.9	6
2184	do	do	Granite	(2)	165	.43	4.7	8.5	18.5	7
3944	do	do	Biotite granite	(2)	165	.49	10.0	4.0	18.2	6
432	Wilson (3 miles south of)	do	Granite	(2)	165	.38	6.4	6.2	(2)	(2)
433	Wilson (4 miles south southwest of)	do	do	(2)	162	.22	5.6	7.1	(2)	(2)
19405	Bald Mountain	Yancey	Altered rhyolite	(2)	168	.02	2.9	13.8	19.2	28
19406	do	do	do	60,725	166	.12	3.0	13.3	18.3	15
5374	(1)	do	Quartzite	(2)	165	.30	3.1	12.9	19.3	14
7589	(1)	do	Biotite schist	(2)	184	.27	(2)	(2)	19.2	6

OHIO

16722	Liberty Township	Adams	Limestone	(2)	173	0.60	5.5	7.3	11.0	5
10305	Allentown (near)	Allen	do	(2)	169	1.80	4.2	9.5	16.0	6
21712	American Township	do	Dolomite	(2)	167	3.26	4.4	9.1	14.3	8
21331	Bath Township	do	do	(2)	166	1.93	5.8	6.9	12.3	6
7789	Bluffton	do	Argillaceous dolomite	(2)	171	1.30	5.0	8.0	15.3	7
24674	do	do	Dolomite	(2)	171	1.14	4.2	9.5	16.7	12
14016	Delphos	do	Argillaceous dolomite	(2)	169	.20	4.8	8.3	16.2	6
14018	do	do	Dolomite	(2)	174	1.04	5.1	7.8	15.3	9
14019	do	do	do	(2)	171	.89	4.4	9.1	14.7	9
14772	do	do	Argillaceous dolomite	(2)	170	.70	4.8	8.3	15.3	13
6093	Lima	do	Dolomite	(2)	165	2.24	4.0	10.0	15.5	11
9438	do	do	Argillaceous dolomite	(2)	168	2.10	2.9	13.8	15.6	7
9864	do	do	Dolomite	(2)	165	2.67	3.2	12.5	14.7	7
10025	do	do	Argillaceous limestone	(2)	168	2.77	3.5	11.4	14.7	12

10026	do	do	do	(2)	168	1.96	3.7	10.8	16.0	11
10027	do	do	do	(2)	168	2.26	3.6	11.1	15.0	11
15216	do	do	Argillaceous dolomite	(2)	165	1.86	3.7	10.8	14.7	9
23842	Sugar Creek Township	do	Dolomite	(2)	167	1.80	4.4	9.1	14.7	7
3186	Jefferson	Ashtabula	Sandstone	(2)	153	2.37	10.0	4.0	9.2	5
24594	Lodi Township	Athens	Weathered sandstone	(2)	128	8.90	46.8	0.9	0.0	1
24595	do	do	do	(2)	145	6.11	24.1	1.7	16.7	3
24596	do	do	do	(2)	132	8.80	41.6	1.0	14.0	2
24597	Troy Township	do	do	(2)	135	8.24	32.0	1.3	0.0	2
20055	Somerset Township	Belmont	Sandstone	(2)	142	1.84	6.2	6.5	14.7	7
19379	Union Township	do	do	(2)	135	7.48	26.6	1.5	0.0	2
20449	do	do	do	(2)	136	7.14	24.2	1.7	0.0	2
20054	Warren Township	do	do	(2)	141	6.28	24.6	1.6	4.0	4
19625	Lewis Township	Brown	Limestone	(2)	169	.20	6.9	5.8	12.7	6
20099	Perry Township	do	Argillaceous limestone	(2)	169	.63	7.2	5.6	10.7	7
20921	do	do	do	(2)	166	2.06	6.4	6.2	11.7	6
20922	Sterling Township	do	do	(2)	150	2.19	4.3	9.3	11.3	5
977	Urbana	Champaign	Calcareous sandstone	15,075	159	3.60	11.4	3.5	7.3	7
978	do	do	do	3,850	159	3.90	32.8	1.2	0.0	5
4307	Cold Springs	Clark	Dolomite	(2)	162	3.59	9.1	4.4	11.4	6
4692	Springfield	do	do	(2)	168	1.54	6.8	5.9	11.3	4
4695	do	do	do	18,960	168	.60	6.7	6.0	14.0	9
16728	Batavia Township	Clermont	Limestone	(2)	168	.78	10.0	4.0	11.7	6
17062	Miamiville	do	do	18,575	171	.17	5.5	7.3	13.0	5
19140	Stonelick Township	do	do	(2)	171	.58	5.3	7.5	11.3	6
20129	(1)	do	do	(2)	169	.47	6.6	6.1	13.3	6
10516	Farmers	Clinton	do	(2)	171	1.66	5.2	7.7	13.2	4
10517	do	do	Siliceous limestone	(2)	167	.49	6.6	6.1	13.7	5
5247	Melvin	do	Dolomite	(2)	162	2.11	6.8	5.9	13.3	7
14524	Richland Township	do	Argillaceous dolomite	(2)	157	3.48	9.4	4.3	13.3	5
22207	Center Township	Columbiana	Sandstone	(2)	136	7.15	23.5	1.7	1.7	4
22668	do	do	do	(2)	137	7.21	19.8	2.0	10.7	3
1309	Coshocton	Coshocton	Limestone	(2)	168	1.10	3.5	11.4	16.2	19
27399B	Bucyrus	Crawford	Crystalline limestone	14,745	156	4.12	6.8	5.9	7.0	5
27399M	do	do	do	16,160	165	1.43	7.0	5.7	13.0	5
27399T	do	do	Argillaceous limestone	31,045	171	1.01	3.6	11.1	15.3	15
27400	do	do	Limestone	34,215	173	.59	2.8	14.3	15.3	13
12890	Berea	Cuyahoga	Sandstone	(2)	124	7.41	(2)	(2)	0.7	5
765	Chagrin Falls	do	do	(2)	159	4.07	4.4	9.1	(2)	(2)
12891	Euclid	do	do	(2)	139	6.55	(2)	(2)	2.7	9
1570	Warrensville	do	Limestone	(2)	162	1.79	7.5	5.3	12.4	6
15464	(1)	Defiance	Shale	(2)	157	.45	10.0	4.0	(2)	6
15215	Delaware	Delaware	Argillaceous limestone	(2)	163	.93	5.3	7.5	15.8	8
20394	Troy	do	do	(2)	168	1.52	3.5	11.4	15.0	9
4399	White Sulphur	do	Limestone	(2)	165	1.31	6.1	6.6	13.2	10
27552	White Sulphur	do	Dolomite	(2)	146	7.79	8.6	4.7	10.7	4
6056	Akron Junction	Erie	Cherty limestone	31,180	168	.20	5.3	7.5	19.5	10
5753	Castalia	do	Dolomitic limestone	18,530	165	1.85	5.6	7.1	13.9	7
6055	do	do	Limestone	20,810	172	.50	5.5	7.3	13.7	7
1944	Sandusky	do	do	(2)	165	1.75	4.3	9.3	13.7	7
1989	do	do	do	(2)	165	1.33	4.9	8.2	9.7	6

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

OHIO—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1990	Sandusky	Erie	Limestone	(2)	168	1.30	3.5	11.4	14.0	7
2979	do	do	do	(2)	168	1.33	3.8	10.5	13.1	8
4378	do	do	do	(2)	165	1.46	4.4	9.1	10.4	8
5554	do	do	do	21,850	168	1.05	3.9	10.3	17.3	10
11331	do	do	Argillaceous limestone	14,615	167	1.38	3.0	13.3	12.9	9
13073	do	do	Limestone	(2)	169	1.07	4.8	8.3	15.9	10
13074	do	do	do	(2)	166	1.56	4.7	8.5	12.4	8
19783	do	do	Argillaceous limestone	(2)	167	.70	3.9	10.3	13.3	6
23055	do	do	do	17,420	167	1.63	3.1	12.9	14.3	6
2895	Wilmer	do	Calcareous sandstone	(2)	153	4.70	6.8	5.9	7.8	5
663	Columbus	Franklin	Limestone	(2)	159	3.25	6.7	6.0	(2)	(2)
664	do	do	do	(2)	162	1.70	6.9	5.8	(2)	(2)
665	do	do	Dolomite	(2)	159	2.68	5.7	7.0	(2)	(2)
666	do	do	Limestone	(2)	156	2.60	3.8	10.5	(2)	(2)
2449	do	do	Calcareous sandstone	(2)	162	1.34	3.1	12.9	12.8	12
2896	do	do	Limestone	(2)	168	.69	3.8	10.5	15.9	6
3077	do	do	do	(2)	165	1.58	3.1	12.9	17.0	6
3766	do	do	do	(2)	168	.98	4.3	9.3	15.5	9
5861	do	do	do	(2)	165	1.05	3.8	10.5	14.5	6
3356	Marble Cliff	do	do	(2)	165	1.45	4.0	10.0	16.0	10
5505	do	do	do	(2)	162	1.22	3.6	11.1	(2)	11
5506	do	do	do	(2)	162	2.14	7.2	5.6	(2)	7
10536	do	do	Argillaceous limestone	(2)	(2)	(2)	(2)	(2)	15.2	6
15888	do	do	do	25,900	166	1.52	4.7	8.5	15.3	7
16340	do	do	Limestone	(2)	167	1.39	4.3	9.3	(2)	7
16418	do	do	Argillaceous limestone	(2)	162	1.14	5.4	7.4	(2)	(2)
17079	do	do	Limestone	(2)	165	1.44	4.0	10.0	14.7	6
17411	do	do	do	(2)	166	1.50	4.5	8.9	(2)	(2)
24266	Raccoon Township	Gallia	Sandstone	(2)	138	9.53	27.6	1.4	0.0	2
16660	Springfield Township	do	Micaceous sandstone	(2)	141	7.30	19.6	2.0	(2)	3
19327	do	do	Sandstone	(2)	142	7.18	23.7	1.7	0.0	3
23748	do	do	Limestone	(2)	169	.05	6.0	6.7	18.3	6
23749	do	do	Sandstone	(2)	135	8.97	40.8	1.0	0.0	2
4308	Jamestown	Greene	Dolomite	(2)	159	1.39	11.0	3.6	12.7	5
4694	Osborn	do	Dolomitic limestone	8,690	168	.31	6.2	6.5	9.3	4
3370	Xenia	do	Limestone	(2)	165	.62	7.2	5.6	13.5	6
5475	do	do	Dolomite	(2)	159	3.56	7.1	5.6	12.3	5
3179	Xenia (near)	do	Limestone	(2)	165	.79	7.8	5.1	8.3	5
3180	do	do	Sandstone	(2)	175	1.36	4.7	8.5	15.3	8

3182	do	do	Dolomite	(2)	168	1.28	(2)	(2)	14.8	8
28408	Center Township	Guernsey	Sandstone	(2)	131	8.37	33.6	1.2	0.0	2
3522	Senecaville	do	Limestone	(2)	168	.27	5.6	7.1	17.2	10
5849	Findlay	Hancock	Dolomite	(2)	168	2.42	3.3	12.1	16.3	19
24675	do	do	do	36,685	167	1.70	3.6	11.1	16.7	13
21698	Blanchard	Hardin	do	(2)	167	2.28	4.1	9.8	13.7	7
5553	Dunkirk	do	do	26,200	165	2.78	3.5	11.4	15.1	16
9227	do	do	Argillaceous dolomite	(2)	168	2.56	4.0	10.0	15.8	11
11329	do	do	do	26,295	167	2.17	3.4	11.8	15.0	10
23840	do	do	Dolomite	(2)	167	2.46	4.4	9.1	16.7	6
24620	do	do	do	(2)	162	2.05	3.6	11.1	16.7	7
24621	do	do	do	(2)	170	.99	3.8	10.5	17.0	12
24622	do	do	do	(2)	168	2.35	3.9	10.3	16.7	12
24623	do	do	do	(2)	164	2.10	(2)	(2)	18.7	12
29431	do	do	do	(2)	155	4.41	4.1	9.8	15.3	14
24688	Forest	do	do	(2)	162	1.93	7.3	5.5	13.7	5
24689	do	do	do	(2)	162	2.20	8.4	4.8	11.0	5
24690	do	do	do	(2)	160	2.54	7.6	5.3	11.3	4
24691	do	do	do	(2)	161	2.08	7.6	5.3	11.3	4
26935	do	do	do	(2)	(2)	(2)	10.9	3.7	(2)	(2)
27372	do	do	do	13,620	156	2.12	9.0	4.4	14.3	6
11202	Kenton	do	do	(2)	167	2.08	2.7	14.8	15.3	15
11225	do	do	do	(2)	164	2.35	2.5	16.0	17.0	12 [3] 4
16417	do	do	do	(2)	168	2.12	2.9	13.8	(2)	(2)
21695	do	do	Argillaceous dolomite	(2)	166	2.54	4.2	9.5	11.5	7
21696	do	do	Dolomite	(2)	169	2.01	3.7	10.8	14.0	11
24642	do	do	do	(2)	168	1.80	3.6	11.1	17.3	13
21699	Lynn	do	do	(2)	165	2.98	4.5	8.9	12.7	6
4693	Patterson	do	do	11,360	165	.77	(2)	(2)	13.3	4
23841	Pleasant Township	do	do	(2)	163	2.89	4.0	10.0	14.7	10
23778	(1)	Harrison	Argillaceous limestone	(2)	166	1.20	5.1	7.8	17.3	13
20519	Fairfield Township	Highland	Dolomite	(2)	166	2.35	13.5	3.0	14.0	(2)
20520	do	do	do	(2)	154	4.45	14.2	2.8	9.3	5
20521	do	do	do	(2)	160	2.86	7.1	5.6	12.7	6
22288	do	do	do	(2)	165	1.99	6.2	6.5	12.3	7
14525	Hamer Township	do	Argillaceous dolomite	(2)	169	1.35	7.4	5.4	12.7	5
4707	Hillsboro	do	Cherty limestone	15,590	165	2.88	5.5	7.3	11.8	6
19141	Paint	do	Dolomite	(2)	161	2.92	12.5	3.2	12.7	6
19142	do	do	do	(2)	160	3.90	11.6	3.4	12.7	10
19730	do	do	do	(2)	165	1.78	6.5	6.2	13.3	7
24352	Sinking Spring	do	Dolomitic limestone	(2)	174	.55	3.9	10.3	15.3	13
16939	(1)	do	Argillaceous dolomite	(2)	163	3.91	5.3	7.5	3.7	5
19976	Gore Falls Township	Hocking	Sandstone	(2)	(2)	(2)	9.8	4.1	(2)	(2)
1986	Logan	do	Argillaceous sandstone	(2)	156	5.14	6.0	6.7	0.0	6
1987	do	do	Limestone	(2)	168	1.06	4.5	8.9	11.3	6
19929	Salt Creek Township	Holmes	Argillaceous limestone	(2)	164	1.00	6.9	5.8	13.7	6
9233	Bellevue	Huron	do	(2)	159	3.75	6.7	6.0	8.3	4
11198	do	do	Dolomite	(2)	156	4.89	4.9	8.2	6.0	5
13095	do	do	Argillaceous limestone	(2)	157	5.85	6.3	6.3	10.3	5

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

OHIO—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
21629	Bellevue	Huron	Argillaceous limestone	(2)	152	5.26	6.6	6.1	14.7	8
24457	do	do	Limestone	20,335	156	3.79	6.6	6.1	14.7	6
24459	do	do	Dolomite	23,360	158	3.71	5.0	8.0	11.7	7
24537	do	do	Limestone	26,480	169	1.17	3.0	13.3	14.9	9
24863	do	do	Dolomitic limestone	(2)	155	4.43	6.2	6.5	12.7	7
8347	Clarksfield	do	Calcareous sandstone	9,490	153	3.95	(2)	(2)	10.7	5
11203	do	do	Feldspathic sandstone	7,910	136	7.75	7.5	5.3	(2)	5
20348	Island Creek Township	Jefferson	Sandstone	(2)	146	4.30	18.2	2.2	15.3	4
2516	Newark (near)	Licking	Chert	(2)	156	1.97	3.4	11.8	(2)	(2)
2635	do	do	Limestone	(2)	165	1.19	4.3	9.3	18.1	7
1655	Bellefontaine	Logan	Dolomite	(2)	153	6.91	8.7	4.6	(2)	(2)
1687	do	do	Limestone	(2)	156	4.02	9.6	4.2	13.7	8
4656	Bigsprings	do	Argillaceous limestone	16,380	156	5.03	5.6	7.1	9.5	6
582	East Liberty	do	Dolomitic limestone	(2)	175	.83	3.8	10.5	(2)	(2)
24381	Perry Township	do	Dolomite	(2)	170	.79	4.6	8.7	15.3	10
3735	Holland	Lucas	do	(2)	172	1.50	6.8	5.9	13.7	7
3938	do	do	do	(2)	175	.45	4.1	9.8	17.7	14
5756	do	do	Cherty dolomite	26,950	168	2.78	4.9	8.2	18.8	9
6057	do	do	Argillaceous dolomite	19,430	168	2.28	5.8	6.9	11.3	6
3734	Silica	do	Dolomite	(2)	162	2.76	5.0	8.0	15.7	8
27445	do	do	do	(2)	173	1.19	5.4	7.4	15.3	7
27374	Sylvania	do	do	(2)	139	8.10	13.8	2.9	8.0	3
1184	Toledo	do	do	(2)	165	.83	4.8	8.3	14.2	10
13093	do	do	do	(2)	172	.49	6.1	6.6	12.7	6
8402	Toledo (10 miles west of)	do	do	11,600	172	.92	(2)	(2)	13.0	(2)
5754	Vulcan	do	do	(2)	172	1.23	4.5	8.9	16.9	12
6054	do	do	Siliceous limestone	25,480	168	1.09	4.2	9.5	15.7	12
4995	Waterville	do	Dolomite	(2)	172	1.74	3.1	12.9	(2)	(2)
6084	do	do	do	(2)	168	2.05	2.3	17.4	15.0	15
9890	do	do	Argillaceous dolomite	(2)	168	2.36	3.3	12.1	16.3	11
9983	do	do	Dolomite	(2)	168	2.04	2.8	14.3	16.3	14
13179	do	do	Slate	(2)	171	.40	8.6	4.7	16.0	14
13397	do	do	Limestone	(2)	165	.23	4.0	10.0	16.0	19
16747	do	do	Magnesian limestone	(2)	163	2.07	6.9	5.8	4.3	5
28570	do	do	Limestone	(2)	158	4.02	9.7	4.1	8.0	4
11097	Whitehouse	do	Siliceous limestone	(2)	161	2.90	6.2	6.5	9.3	6
19289	do	do	Argillaceous limestone	(2)	160	3.49	6.1	6.6	7.0	6
21628	Woodville	do	Dolomite	(2)	151	5.54	8.0	5.0	12.7	6
1352	Youngstown	Mahoning	Limestone	(2)	168	.13	4.4	9.1	(2)	(2)

4400	Marion	Marion	do	(2)	162	3.29	3.1	12.9	12.2	7
4423	do	do	Sandstone	(2)	153	2.66	4.2	9.5	17.2	8
5891	Covington	Miami	Dolomite	20,200	172	1.84	3.8	10.5	12.4	8
1747	Ludlow Falls	do	Limestone	(2)	172	.28	5.0	8.0	16.0	9
2015	do	do	Dolomite	(2)	172	.77	3.8	10.6	14.7	11
2457	do	do	Limestone	(2)	168	2.70	5.3	7.5	11.9	7
3714	Piqua	do	do	(2)	168	.15	6.0	6.7	12.1	5
5862	do	do	Marble	(2)	165	.92	7.8	5.1	5.6	3
5880	do	do	Crystalline limestone	(2)	172	.52	6.2	6.5	11.6	5
10537	do	do	Dolomite	9,810	156	2.53	10.3	3.9	11.0	4
10538	do	do	do	15,150	178	.97	4.8	8.3	15.0	13
1180	Butler Township	Montgomery	do	(2)	165	1.22	7.5	5.3	14.8	10
3257	Centerville	do	Limestone	(2)	165	.70	6.2	6.5	9.3	5
3369	do	do	do	(2)	168	.96	7.4	5.4	14.8	6
10535	do	do	do	(2)	(2)	(2)	(2)	(2)	10.9	3
1732	Dayton	do	do	(2)	175	.63	3.9	10.3	15.2	12
1763	do	do	do	(2)	162	.51	8.7	4.6	12.0	9
1179	Madison Township	do	do	(2)	165	.74	10.2	3.9	11.2	7
19350	Deerfield Township	Morgan	Sandstone	(2)	138	8.54	16.7	2.4	.0	3
19352	do	do	Argillaceous limestone	(2)	168	.74	6.2	6.5	13.3	6
16171	Malta	do	Feldspathic sandstone	(2)	143	6.78	7.7	5.2	.0	4
16173	do	do	do	(2)	138	7.61	10.5	3.8	.0	4
19351	do	do	Argillaceous limestone	(2)	162	1.64	5.9	6.8	14.7	8
16922	Malta Township	do	Limestone	(2)	168	.26	6.5	6.2	12.7	6
17389	do	do	Argillaceous limestone	(2)	164	1.32	4.7	8.5	15.3	6
8270	Gratiot (near)	Muskingum	Siliceous limestone	(2)	162	1.72	4.2	9.5	18.3	13
7126	Zanesville	do	Sandstone	(2)	153	2.10	43.9	.9	.0	1
19377	do	do	Ferruginous sandstone	(2)	142	6.92	11.9	3.4	.0	4
19378	Stock Township	Noble	Argillaceous limestone	(2)	168	.23	6.0	6.7	16.0	7
21325	do	do	do	(2)	167	.35	5.2	7.7	15.3	10
19793	Allen Township	Ottawa	Dolomite	(2)	162	3.15	9.4	4.3	13.3	5
23760	do	do	do	(2)	163	1.75	7.3	5.5	10.0	4
25406	Clay Center	do	do	(2)	153	3.77	12.6	3.2	14.0	4
29380	do	do	do	(2)	158	4.01	6.1	6.6	7.0	4
9973	Limestone	do	do	(2)	162	(2)	5.5	7.3	12.0	7
25395	Marblehead	do	Limestone	(2)	160	3.21	6.6	6.1	8.7	4
25938	do	do	do	(2)	(2)	(2)	5.8	6.9	(2)	(2)
29403	do	do	do	(2)	158	3.29	8.1	4.9	.7	4
779	Oakharbor	do	Dolomite	(2)	175	.21	6.1	6.6	(2)	(2)
788	do	do	Limestone	(2)	165	.93	8.1	4.9	(2)	(2)
9945	Rockyridge	do	Dolomite	13,360	175	.41	5.4	7.4	12.0	9
3541	White Rock	do	do	(2)	175	.67	4.2	9.5	15.7	11
5757	do	do	do	(2)	168	1.40	5.8	6.9	15.5	10
6052	do	do	do	16,620	172	1.03	5.9	6.8	14.7	5
19452	Thorn Township	Perry	Chert	(2)	152	1.95	7.4	5.4	(2)	(2)
15217	Circleville	Pickaway	Dolomitic marble	(2)	164	2.82	4.4	9.1	14.7	9
6692	Atwater Township	Portage	Limestone	(2)	168	1.11	4.7	8.5	17.4	8
6690	Freedom Township	do	do	(2)	165	1.39	4.6	8.7	15.1	13
7118	Palmyra	do	Ferrugineous sandstone	(2)	150	1.57	21.4	1.9	1.3	2
6790	Palmyra Township	do	do	(2)	153	5.70	10.0	4.0	(2)	(2)
5930	Lewisburg	Preble	Argillaceous dolomite	(2)	159	5.55	7.2	5.6	2.3	4

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

OHIO—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
28150	Lewisburg	Preble	Dolomite	(2)	165	3.54	5.7	7.0	14.3	9
28151	do	do	Crystalline limestone	(2)	167	.77	4.0	10.0	12.0	6
28152	do	do	Dolomite	(2)	170	1.93	4.6	8.7	13.7	10
2893	New Paris	do	Limestone	(2)	175	.32	4.3	9.3	17.9	7
3181	do	do	Dolomite	(2)	172	.98	3.6	11.1	15.3	13
5980	do	do	do	(2)	175	.47	2.6	15.4	15.8	14
10539	do	do	do	16,480	167	1.12	3.4	11.8	16.7	6
3183	Greenfield (near)	Ross	Sandstone	(2)	165	3.69	(2)	(2)	15.8	11
2794D	Bellevue	Sandusky	Limestone	(2)	172	1.02	3.4	11.8	15.0	8
2794L	do	do	do	(2)	156	4.83	(2)	(2)	7.6	4
4342	do	do	do	(2)	165	2.26	8.0	5.0	6.8	5
4889	do	do	do	(2)	165	.95	4.1	9.8	12.3	6
5090	do	do	do	(2)	168	.97	6.3	6.3	14.8	10
5091	do	do	do	(2)	172	1.46	4.2	9.5	16.4	14
7776	Fremont	do	Dolomite	(2)	168	1.43	7.8	5.1	11.2	6
22299	do	do	do	(2)	157	4.35	7.5	5.3	8.7	4
23655	do	do	do	(2)	154	5.41	7.0	5.7	16.3	5
25404	Gibsonburg	do	do	(2)	155	4.47	10.0	4.0	12.0	5
25408	do	do	do	(2)	155	3.73	9.4	4.3	10.7	5
12358	Woodville	do	do	(2)	160	4.14	7.5	5.3	17.0	7
13888	do	do	do	(2)	159	3.85	5.8	6.9	16.0	7
16547	do	do	do	(2)	162	3.53	5.8	6.9	(2)	6
25394	do	do	do	(2)	171	.70	8.8	4.5	13.7	5
25413	do	do	do	(2)	169	.83	5.6	7.1	16.7	8
26936	do	do	do	(2)	(2)	(2)	7.0	5.7	(2)	(2)
29354	do	do	do	(2)	164	2.99	7.4	5.4	8.3	5
19781	Bascom	Seneca	do	(2)	161	3.71	7.9	5.1	8.7	4
24915	do	do	do	(2)	152	5.66	7.4	5.4	13.0	6
2477	Bloomville	do	Argillaceous limestone	(2)	168	2.25	3.3	12.1	15.2	18
2478	do	do	Limestone	(2)	172	.37	4.3	9.3	12.8	9
5556	do	do	do	20,250	168	1.00	3.6	11.1	12.5	6
9281	do	do	do	(2)	156	3.33	4.3	9.3	13.5	7
11330	do	do	Argillaceous limestone	16,565	166	2.22	3.6	11.1	12.5	6
24886	do	do	Dolomitic limestone	(2)	164	2.31	4.4	9.1	13.0	7
19331	Clinton Township	do	Dolomite	(2)	160	3.90	5.4	7.4	12.0	7
19782	Maple Grove	do	do	(2)	165	2.72	7.5	5.3	11.0	7
24458	do	do	do	14,750	163	3.06	11.0	3.6	.0	3
25020	do	do	do	(2)	147	4.95	10.8	3.7	7.3	5
25397	do	do	do	(2)	165	1.42	6.6	6.1	13.0	5

26937	do	do	do	(2)	(2)	(2)	6.1	6.6	(2)	(2)
29544	do	do	do	(2)	171	1.19	6.3	6.3	9.7	6
2532	Republic (near)	do	Limestone	(2)	168	2.12	4.5	8.9	15.3	8
1856	(1)	do	Dolomite	(2)	165	1.29	6.9	5.8	13.8	6
2042	(1)	do	do	(2)	172	.96	6.7	6.0	15.3	7
5092	(1)	do	do	(2)	172	.55	10.8	3.7	12.4	4
2663	Pike Township	Stark	Limestone	(2)	168	.55	3.9	10.3	15.8	9
2833	Twinsburg	Summit	Sandstone	(2)	153	4.33	5.2	7.7	13.8	14
828	Howland Township	Trumbull	do	(2)	162	.80	3.1	12.9	(2)	8
5555	Middle Point	Van Wert	Dolomite	25,200	172	.76	5.3	7.5	16.3	13
11328	do	do	Argillaceous limestone	27,570	169	1.76	3.8	10.5	15.6	10
14771	do	do	Dolomite	(2)	166	2.07	5.0	8.0	15.7	8
25052	do	do	do	(2)	168	1.16	4.6	8.7	15.3	10
25053	do	do	do	(2)	172	.69	3.8	10.5	18.0	12
25054	do	do	do	(2)	170	1.32	5.2	7.7	14.0	8
6116	Willshire	do	do	(2)	159	1.05	11.5	3.5	9.2	4
9947	Bowling Green	Wood	do	(2)	165	1.38	7.5	5.3	12.2	6
10346	Luckey	do	do	(2)	162	3.68	7.3	5.5	12.0	6
25475	do	do	do	(2)	159	2.42	7.4	5.4	14.0	4
25477	do	do	do	(2)	171	1.09	7.2	5.6	16.7	5
26248	Middleton Township	do	Argillaceous dolomite	(2)	171	1.43	3.6	11.1	17.7	17
9883	North Baltimore	do	do	(2)	168	2.61	5.0	8.0	16.0	10
9957	do	do	Dolomite	(2)	168	2.08	4.0	10.0	14.3	14
15047	do	do	Argillaceous dolomite	(2)	168	2.57	4.6	8.7	(2)	(2)
24619	do	do	Dolomite	(2)	170	1.23	4.3	9.3	16.7	14
24848	do	do	Argillaceous dolomite	(2)	167	2.11	3.8	10.5	16.3	15
24849	do	do	do	(2)	169	2.11	3.6	11.1	17.0	16
24850	do	do	Dolomite	(2)	168	1.72	4.8	8.3	17.0	9
29370	do	do	do	(2)	170	1.64	4.7	8.5	17.0	8
4691	Carey	Wyandotte	do	(2)	165	1.34	5.9	6.8	8.8	3
25021	do	do	do	(2)	138	9.59	26.2	1.5	.0	2
25399	do	do	do	(2)	152	5.23	18.2	2.2	12.3	4
26934	do	do	do	(2)	(2)	(2)	11.0	3.6	(2)	(2)
28393	do	do	do	(2)	(2)	(2)	5.7	7.0	15.3	12
29417	do	do	do	(2)	151	4.22	19.7	2.0	(2)	3
21697	Marseilles	do	do	(2)	159	3.55	5.7	7.0	13.2	5

OKLAHOMA

4352	Chockie	Atoka	Chert	(2)	162	0.65	2.7	14.8	19.2	25
6374A	do	do	do	(2)	162	.52	4.5	8.9	(2)	(2)
6374B	do	do	Limestone	(2)	168	.73			16.0	7
5853	Stringtown	do	Chert	(2)	153	2.91	6.3	6.3	18.8	5
5982	do	do	Weathered chert	(2)	159	1.72	7.4	5.4	(2)	(2)
9464	do	do	Argillaceous limestone	(2)	162	1.90	4.3	9.3	18.8	27 [3] 5
19366	do	do	Chert	(2)	158	1.75	4.6	8.7	15.7	9
19367	do	do	do	(2)	161	.82	4.0	10.0	19.3	16

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

OKLAHOMA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
3347	Watonga	Blaine	Dolomite	(2)	168	1.16	5.5	7.3	16.8	13
14997	Armstrong	Bryan	Fossiliferous limestone	(2)	164	1.49	6.3	6.3	13.3	6
16134	Armstrong (2 miles north of)	do	Limestone	(2)	166	1.46	4.9	8.2	15.7	6
16170	Caddo	do	Argillaceous limestone	(2)	158	3.69	6.1	6.6	14.7	6
15118	Caddo (near)	do	Limestone	(2)	153	5.08	6.4	6.2	.0	5
16135	Durant (3 miles north of)	do	Fossiliferous limestone	(2)	167	1.20	4.9	8.2	14.7	7
16136	Durant (2 miles north of)	do	Calcareous sandstone	(2)	154	5.32	6.8	5.9	11.3	7
4365	Cement	Caddo	Siliceous limestone	(2)	165	.66	4.1	9.8	16.2	7
4703	Fort Sill	Comanche	Limestone	(2)	168	.54	(2)	(2)	13.7	5
4704	do	do	do	(2)	162	1.12	(2)	(2)	14.8	6
4705	do	do	Altered rhyolite	(2)	162	1.14	(2)	(2)	18.7	15
4366	Richards	do	Limestone	(2)	168	.20	4.0	10.0	16.6	6
5251	do	do	do	(2)	168	.62	3.9	10.3	16.2	9
4368	Granite	Greer	Granite porphyry	(2)	165	.12	2.5	16.0	19.3	21
4369	do	do	Hornblende granite	(2)	165	.20	6.3	6.3	18.7	8
4370	do	do	do	(2)	165	.20	3.8	10.5	19.0	9
20583	Bromide	Johnston	Limestone	(2)	163	1.94	5.9	6.8	15.3	8
4355	Ravia	do	Granite	(2)	162	.18	3.3	12.1	19.0	9
4356	do	do	Bituminous limestone	(2)	135	2.69	4.0	10.0	3.2	6
5590	do	do	Weathered granite	(2)	162	.39	4.2	9.5	(2)	(2)
4353	Tishomingo	do	Biotite granite	(2)	165	.06	6.0	6.7	19.2	8
4354	do	do	Diabase	(2)	190	.14	4.1	9.8	18.8	25
19348	Troy	do	do	(2)	189	.09	4.0	10.0	18.7	20
19349	do	do	Granite	(2)	163	.57	10.3	3.9	18.0	6
21335	do	do	Biotite granite	18,415	165	.62	10.5	3.8	18.7	4
7496	Wapanucka	do	Limestone	(2)	156	2.74	5.6	7.1	(2)	(2)
6028	(1)	do	do	(2)	162	.81	5.7	7.0	14.7	10
6034	(1)	do	do	(2)	165	.53	4.4	9.1	15.5	7
4348	Newkirk	Kay	Clay limestone	(2)	143	6.79	9.9	4.0	.0	4
4346	Ponca City	do	do	(2)	143	5.06	(2)	(2)	.0	3
4347	do	do	Limestone	(2)	153	3.77	5.7	7.0	8.3	5
5142	do	do	do	(2)	156	2.91	(2)	(2)	13.2	7
5143	do	do	do	(2)	156	3.03	(2)	(2)	12.3	5
5144	do	do	do	(2)	150	5.50	(2)	(2)	11.0	5
5145	do	do	do	(2)	150	4.65	(2)	(2)	8.6	5
5325	do	do	do	(2)	156	3.20	6.1	6.6	8.6	5
28799	do	do	Argillaceous limestone	(2)	149	4.44	10.4	3.8	8.7	5
28800	do	do	do	(2)	146	5.32	9.4	4.3	12.0	5

4349	Uncas	do	Shell limestone	(2)	150	5.29	9.3	4.3	.0	
17738	(1)	do	Argillaceous limestone	(2)	145	6.28	8.2	4.9	12.0	4
4367	Cold Springs	Kiowa	Diorite	(2)	178	.24	2.8	14.3	18.8	22
23862	Lone Wolf (near)	do	Altered granite	34,810	159	1.43	(2)	(2)	18.0	9
22620	Mountain View (near)	do	Limestone	(2)	154	5.30	11.7	3.4	12.7	7
17057	Gowen	Latimer	Sandstone	(2)	143	5.02	15.8	2.5	(2)	(2)
16060	Wister	Le Flore	do	(2)	159	1.88	1.7	23.5	18.3	12
16062	do	do	do	(2)	155	2.28	4.9	8.2	(2)	(2)
16050	(1)	do	do	(2)	156	1.72	2.3	17.4	18.3	13
3872	Madill	Marshall	Limestone	(2)	162	2.54	4.9	8.2	13.0	5
18228	Salina	Mayes	Chert	(2)	(2)	(2)	4.3	9.3	(2)	(2)
18229	do	do	do	(2)	(2)	(2)	4.8	8.3	(2)	(2)
18230	do	do	Limestone	(2)	(2)	(2)	5.7	7.0	(2)	(2)
21310	(1)	do	Chert	(2)	146	6.56	4.6	8.7	18.7	19
6077	Garvin	McCurtain	Limestone	(2)	156	1.98	10.0	4.0	.0	4
4362	Crusher	Murray	do	(2)	168	.24	4.4	9.1	15.1	8
5376	do	do	do	(2)	172	.33	3.5	11.4	14.8	7
4359	Dougherty	do	Bituminous limestone	(2)	156	.86	4.2	9.5	(2)	(2)
19098	Okmulgee	Okmulgee	Ferruginous sandstone	(2)	102	5.61	15.6	2.6	.7	4
4383	Avant	Osage	Limestone	(2)	162	2.23	5.7	7.0	12.3	4
5425	Ripley	Payne	Dolomite	(2)	175	.59	4.6	8.7	14.6	7
4350	Hartshorne	Pittsburg	Limestone	(2)	168	.31	(2)	(2)	16.8	8
4351	do	do	do	(2)	165	1.14	4.4	9.1	16.6	13
15957	do	do	do	(2)	168	.49	4.1	9.8	15.7	5
17875	do	do	do	(2)	163	1.32	3.8	10.5	(2)	(2)
4364	Ada	Pontotoc	Fossiliferous limestone	(2)	165	.41	9.0	4.4	8.2	3
8856	Fitzhugh	do	do	(2)	159	2.22	16.7	2.4	6.7	2
8857	do	do	do	(2)	168	.69	12.0	3.3	17.7	7
5693	Tuskahoma	Pushmataha	Calcareous chert	(2)	162	.45	5.8	6.9	19.4	6
14914	Gray	Tulsa	Argillaceous limestone	(2)	165	1.16	7.1	5.6	14.7	6
15790	do	do	Limestone	(2)	163	3.03	5.7	7.0	(2)	(2)
15791	do	do	do	(2)	161	2.50	7.4	5.4	13.3	4
16586	Sand Springs	do	do	(2)	159	2.63	8.2	4.9	11.0	5
16825	do	do	Argillaceous limestone	(2)	163	1.59	6.0	6.7	12.0	6
16826	do	do	Limestone	(2)	166	.66	5.1	7.8	13.3	7
29621	do	do	Argillaceous limestone	(2)	152	5.44	7.9	5.1	10.0	5
3717	Tulsa	do	Sandstone	(2)	159	3.17	9.6	4.2	14.2	13
15788	do	do	Argillaceous limestone	(2)	161	1.93	5.8	6.9	13.0	5
15789	do	do	do	(2)	164	1.07	5.7	7.0	12.7	5
6468	Dewey	Washington	Sedimentary limestone	(2)	165	1.37	5.0	8.0	17.3	5
11640	do	do	Argillaceous limestone	(2)	166	1.10	5.3	7.5	14.0	5
11641	do	do	do	(2)	164	1.14	5.3	7.5	11.3	5
22711	do	do	do	(2)	166	.82	6.2	6.5	14.3	5

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

OREGON

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
18224	La Grande (2 miles west of)	Baker	Basalt	(2)	174	1.62	3.4	11.8	18.7	18
2920	St. Helens	Columbia	do	(2)	175	1.80	1.8	22.2	18.8	22
7357	Griffen Creek	Jackson	Altered basalt breccia	(2)	181	.38	1.8	22.2	18.5	24
28010	Crater Lake National Park	Klamath	Augite andesite	(2)	162	2.57	6.0	6.7	17.3	10
28011	do	do	do	(2)	167	2.05	3.8	10.5	16.0	8
28012	do	do	do	(2)	166	2.02	4.6	8.7	15.3	8
28013	do	do	do	(2)	164	2.36	3.6	11.1	17.3	13
980	Eugene (Judkin's Point)	Lane	Basalt	(2)	169	2.30	5.9	6.8	7.9	7
982	Eugene (Skinner's Butte)	do	Olivine basalt	(2)	188	.72	2.8	14.3	10.7	6
7004	(1)	do	Volcanic breccia	(2)	172	3.23	(2)	(2)	17.0	4
18222	Nelsons	Malheur	Marble	(2)	166	.69	5.9	6.8	16.7	7
1766	Salem	Marion	Basalt	(2)	175	.83	3.9	10.3	18.0	38
1136	Portland (Clarnie's Butte)	Multnomah	do	(2)	162	2.27	6.8	5.9	15.8	20
1137	Portland (Kelly Butte)	do	do	(2)	172	2.01	3.8	10.5	16.4	26
7319	Portland	do	Basaltic tuffa	(2)	150	5.82	31.4	1.3	(2)	(2)
1135	Troutdale	do	Basalt	(2)	168	2.32	3.7	10.8	16.0	19
2070	Pendleton	Umatilla	do	(2)	178	2.22	2.1	19.0	17.9	20
3758	Hillsboro	Washington	Olivine basalt	(2)	168	1.89	4.3	9.3	17.2	12
5354	Portland (4 miles west of)	do	Basalt	(2)	165	1.26	4.2	9.5	17.9	15
1454	Newberg	Yamhill	do	(2)	172	1.64	(2)	(2)	18.4	30

PENNSYLVANIA

1950	Abbottstown	Adams	Sedimentary sandstone	(2)	162	0.81	3.2	12.5	18.9	8
1612	Berwick township	do	Quartzite	(2)	162	.60	4.0	10.0	18.3	5
1177	Bittinger	do	Limestone	(2)	172	.20	4.9	8.2	14.2	9
1178	do	do	Feldspathic sandstone	(2)	168	.94	3.7	10.8	12.2	7
2244	Cumberland	do	Diabase	(2)	187	.91	(2)	(2)	18.6	24
2245	do	do	Sandstone	(2)	153	2.95	(2)	(2)	17.1	12
2549	do	do	Limestone	(2)	165	1.25	2.0	20.0	17.2	25
2171	Floradale	do	Altered basalt	(2)	181	1.18	2.0	20.0	18.2	9
6881	Granite	do	Grabbroitic diabase	(2)	193	.25	2.5	16.0	17.9	8
8705	do	do	Hypersthene diabase	(2)	190	.39	3.8	10.5	18.7	12
9786	do	do	Grabboitic diabase	23,435	(2)	(2)	(2)	(2)	15.2	14
1949	Hanover (near)	do	Chlorite schist	(2)	181	1.03	6.6	6.1	(2)	(2)

6064	do	do	Marble	(2)	168	.11	4.0	10.0	14.7	8
6069	do	do	Limestone	(2)	175	.21	4.1	9.8	16.0	7
6089	do	do	Marble	(2)	163	.37	5.8	6.9	13.3	3
7499	do	do	do	(2)	168	.37	5.1	7.8	11.0	6
7670	do	do	Siliceous limestone	(2)	178	.21	3.5	11.4	17.7	9
1483	Littlestown (near)	do	Slate	(2)	168	1.55	(2)	(2)	11.1	12
1486	do	do	do	(2)	165	2.10	(2)	(2)	1.1	7
1814	Menallen township	do	Rhyolite	(2)	165	.22	2.0	20.0	19.6	42
1815	do	do	do	(2)	162	.35	1.9	21.1	19.5	34
5392	McSherrystown	do	Marble	(2)	168	.32	4.7	8.5	12.4	5
1611	Oxford township	do	Dolomite	(2)	172	.43	3.9	10.3	17.7	16
16012	York Springs	do	Diabase	(2)	189	.53	1.8	22.2	18.7	34
2125	(1)	do	Altered basalt	(2)	175	2.38	2.9	13.8	17.0	10
2180	Coraopolis (near)	Allegheny	Limestone	(2)	165	.83	5.9	6.8	16.7	12
2118	Oakdale	do	do	(2)	172	.29	4.2	9.5	16.4	7
2152	Pittsburgh	do	do	(2)	172	.60	(2)	(2)	16.6	9
5546	do	do	do	(2)	168	.27	4.5	8.9	15.3	3
6686-1	do	do	Siliceous slate	(2)	172	.41	(2)	(2)	19.0	29
6686-2	do	do	Pyroxene gneiss	(2)	181	.42	(2)	(2)	18.1	8
4877	Sewickley township	do	Siliceous limestone	(2)	168	1.24	3.8	10.5	14.1	12
4878	do	do	Limestone	(2)	172	.36	4.5	8.9	14.3	11
12510	(1)	do	Quartzite	(2)	165	.18	3.6	11.1	19.2	22
4671	Apollo	Armstrong	do	(2)	168	.23	6.3	6.3	15.8	6
2551	Craigsville (near)	do	do	(2)	172	.46	4.7	8.5	16.2	7
2552	East Brady	do	do	(2)	165	1.04	(2)	(2)	15.5	7
1357	Ford City	do	do	(2)	168	.26	5.0	8.0	(2)	(2)
1358	do	do	do	(2)	168	.58	4.0	10.0	16.4	17
2159	Franklin Township	do	do	(2)	165	1.14	4.1	9.8	15.0	7
2906	Freeport (near)	do	Siliceous limestone	(2)	168	.58	2.9	13.8	16.6	9
2096	Kittanning	do	Limestone	(2)	165	1.21	4.8	8.3	15.5	8
2296	do	do	do	(2)	168	.35	4.9	8.2	15.7	8
2696	do	do	do	(2)	165	.79	4.8	8.3	16.4	9
16077	Parker's Landing	do	do	19,470	161	.88	4.2	9.5	15.3	6
3723	Templeton	do	do	(2)	168	.52	5.1	7.8	14.8	6
2716	Beaver	Beaver	do	(2)	168	.72	6.7	6.0	14.7	6
2066	Bedford	Bedford	do	(2)	168	.72	4.3	9.3	16.5	7
2194	Bloomfield Township	do	Quartzite	(2)	156	1.39	4.6	8.7	17.4	9
3851	Hyndman	do	Limestone	(2)	172	.45	3.4	11.8	17.2	15
5602	do	do	do	24,150	168	.22	2.9	13.8	14.3	6
5603	do	do	Siliceous limestone	21,860	168	.22	4.1	9.8	16.5	10
2330	Loysburg	do	Dolomitic limestone	(2)	168	.53	4.2	9.5	(2)	(2)
2331	do	do	Dolomite	(2)	178	.83	3.4	11.8	15.8	11
2752	Waterside	do	Limestone	(2)	172	.31	3.5	11.4	16.7	10
2248	Bally	Berks	Diabase	(2)	187	.45	2.7	14.8	18.2	10
2033	Barto	do	Altered diorite	(2)	209	.71	2.3	17.4	18.7	16
8242	do	do	do	(2)	197	.61	2.4	16.7	19.0	12
8243	do	do	Weathered granite	(2)	162	.82	(2)	(2)	19.0	10
5573	Bechtelsville	do	Gabbroitic diabase	(2)	184	.81	3.9	10.3	18.3	12
1947	Birdsboro	do	Diabase	(2)	184	.74	1.9	21.1	18.0	12
3434	do	do	Gabbro	(2)	187	.47	1.5	26.7	18.6	9
3435	Birdsboro (near)	do	do	(2)	184	.67	1.8	22.2	18.6	23

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

PENNSYLVANIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
5585	Birdsboro (near)	Berks	Diabase	(2)	184	0.14	2.0	20.0	18.0	26
5626	do	do	do	(2)	187	.40	2.4	16.8	18.8	17
5632	do	do	Altered diabase	39,215	184	.34	2.0	20.0	18.2	21
10104	do	do	Diabase	(2)	(2)	(2)	1.7	23.5	18.7	13
14468	do	do	Gabbroitic diabase	(2)	188	.35	(2)	(2)	18.7	10
28155	do	do	Diabase	(2)	185	.17	3.1	12.9	18.7	20
6359	Clingan	do	Gabbroitic diabase	(2)	184	.33	2.0	20.0	17.5	21
3167	Douglas Township	do	Sandstone	(2)	175	.63	2.5	16.0	17.3	38
14642	do	do	Altered slate	(2)	170	.32	1.9	21.1	18.7	28
5569	Douglassville	do	Ferruginous sandstone	(2)	168	.43	1.6	25.0	19.2	35
7413	do	do	Altered basalt breccia	(2)	168	1.12	1.4	28.6	19.3	34
7414	do	do	Diabase	(2)	187	.41	2.8	14.3	18.5	19
7610	Lyons	do	Weathered chert	(2)	156	2.66	5.4	7.4	(2)	(2)
2659	Monocacy	do	Gabbro	(2)	184	.67	2.4	16.7	18.6	19
2660	do	do	Altered gabbro	(2)	181	.75	5.9	6.8	(2)	(2)
2661	do	do	Gabbro	(2)	190	.37	2.2	18.2	18.2	13
5720	Oley	do	Ferruginous sandstone	(2)	156	2.34	1.8	22.2	18.2	35
2192	Pottstown (near)	do	Slate	(2)	172	.54	1.6	25.0	18.4	40
3121	do	do	Clay slate	(2)	168	.33	2.0	20.0	18.8	56
3122	do	do	Argillaceous sandstone	(2)	159	3.48	2.0	20.0	18.7	36
3385	Reading	do	Dolomite	(2)	168	.12	3.6	11.1	16.2	11
5361	do	do	Hornblende granite	(2)	172	1.05	2.0	20.0	18.3	24
8985	do	do	Argillaceous dolomite	(2)	168	.39	3.3	12.1	17.7	5
9615	do	do	Dolomite	(2)	178	.42	5.7	7.0	(2)	(2)
1983	Seisholtzville	do	Granite	(2)	168	.35	3.2	12.5	18.0	18
8786	Trap Rock Station	do	Gabbroitic diabase	(2)	184	.59	3.2	12.5	17.9	10
18221	Tuckerton (near)	do	Siliceous limestone	(2)	170	.12	3.7	10.8	15.7	10
1702	(1)	do	Quartzite	(2)	162	.47	2.5	16.0	(2)	(2)
2432	Allegheny Township	Blair	Limestone	(2)	168	.35	4.9	8.2	13.7	5
2034	Altoona (near)	do	do	(2)	168	.63	5.4	7.4	11.3	8
2384	Altoona	do	do	(2)	168	.39	3.2	12.5	14.2	7
2406	do	do	do	(2)	168	.32	2.8	14.3	16.7	11
2407	do	do	do	(2)	168	.91	4.3	9.3	15.3	6
2421	Catharine Township	do	Siliceous limestone	(2)	168	.46	3.6	11.1	16.7	22
3745	Eldorado (near)	do	Dolomite	(2)	178	.41	3.3	12.1	16.8	10
1601	Hollidaysburg	do	Sandstone	(2)	162	.63	2.3	17.4	18.5	12
2482	do	do	Dolomite	(2)	172	.84	3.3	12.1	17.2	11
2483	do	do	Limestone	(2)	172	.49	3.7	10.8	17.3	20
2484	do	do	do	(2)	172	.80	3.0	13.3	17.1	16

8724	Juniata	do	Crystalline limestone	15,430	168	.40	5.9	6.8	13.7	4
8725	do	do	Argillaceous limestone	20,875	168	.45	5.9	6.8	(2)	(2)
13129	Tyrone	do	Sandstone	(2)	160	.13	3.3	12.1	18.7	12
2492	Tyrone Township	do	Dolomite	(2)	178	.26	3.1	12.9	16.5	10
2839	(1)	do	Limestone	(2)	168	.10	3.2	12.5	16.5	11
8722	(1)	do	Feldspathic sandstone	(2)	165	.81	(2)	(2)	18.2	11
23530	Burlington Township	Bradford	Argillaceous limestone	(2)	168	.94	4.9	8.2	15.3	7
3080	Camptown	do	Limestone	(2)	168	.68	4.2	9.5	15.2	8
7730	East Smithfield	do	Fossiliferous limestone	(2)	168	.40	6.8	5.9	15.7	10
3715	Shesheguin Township	do	Limestone	(2)	165	.22	6.7	6.0	16.0	10
3716	do	do	do	(2)	168	.32	5.3	7.5	16.8	11
3241	Shores Hill	do	Siliceous limestone	(2)	162	1.51	4.2	9.5	15.6	8
2068	Wells	do	do	(2)	168	.63	3.5	11.4	15.9	14
2419	Wyalusing Township	do	Limestone	(2)	168	.64	4.3	9.3	15.2	7
2535	Wyalusing	do	do	(2)	168	.39	3.7	10.8	16.3	4
2541	do	do	Fossiliferous dolomite	(2)	168	.63	4.7	8.5	17.9	22
3097	Wysox Township	do	Calcareous sandstone	(2)	165	.89	2.9	13.8	17.3	9
3119	do	do	Siliceous limestone	(2)	168	.84	3.9	10.3	16.0	9
3120	do	do	do	(2)	168	.49	3.1	12.9	16.7	12
3123	do	do	Limestone	(2)	168	.26	5.3	7.5	14.3	7
3719	do	do	do	(2)	168	.20	3.7	10.8	17.8	16
3802	do	do	do	(2)	168	.24	3.3	12.1	17.0	13
2069	(1)	do	Felspathic sandstone	(2)	165	.86	(2)	(2)	17.2	25
979	Bensalem	Bucks	Micaceous hornblende schist	(2)	175	.18	2.9	13.8	16.4	27
1000	do	do	Mica schist	(2)	172	.13	4.1	9.8	17.5	13
1245	Bridge Valley	do	Argillaceous sandstone	(2)	168	1.01	2.8	14.3	17.5	26
1246	do	do	Sandstone	(2)	153	3.04	2.7	14.8	16.6	20
1565	do	do	Siliceous slate	(2)	168	.53	4.2	9.5	17.3	11
2064	Edison	do	Clay shale	(2)	168	.50	3.2	12.5	17.7	12
5408	Lahaska	do	Gabbroitic diabase	(2)	184	.17	2.0	20.0	18.5	16
4929	Newtown	do	Indurated sandstone	(2)	168	.51	3.6	11.1	18.4	27
5386	New Hope	do	Diabase	(2)	184	.33	2.2	18.2	18.5	22
2323	Quakertown	do	Gabbro	(2)	187	.43	1.7	23.5	18.6	15
11409	do	do	Diabase	34,040	(2)	(2)	(2)	(2)	18.0	10
12166	do	do	Hypersthene diabase	(2)	191	.17	2.8	14.3	18.3	25
731	Rockhill	do	Diabase	(2)	193	.12	1.2	33.3	(2)	(2)
2742	do	do	Gabbro	(2)	190	.22	1.9	21.1	18.8	21
8660	do	do	Hypersthene diabase	(2)	190	.29	3.7	10.8	(2)	(2)
24267	do	do	Diabase	40,640	190	.40	2.0	20.0	18.7	17
1038	Rushland	do	Siliceous limestone	(2)	168	.49	2.3	17.4	17.0	20
7277	do	do	do	(2)	172	.39	2.5	16.0	17.5	22
3200	Shelly	do	Diabase	(2)	187	.34	2.4	16.7	18.3	19
22675	do	do	do	36,090	187	.42	2.4	16.7	18.7	11
11733	Yardley (near)	do	Granite gneiss	16,330	165	.21	4.0	10.0	18.3	15
855	(1)	do	do	(2)	168	.10	3.0	13.3	(2)	(2)
1943	(1)	do	Limestone	(2)	175	1.32	4.2	9.5	16.0	10
6616	(1)	do	Slate	(2)	168	.34	2.9	13.8	18.3	47
2727	West Winfield	Butler	Limestone	(2)	168	.23	3.7	10.8	16.1	6
5221	Johnstown	Cambria	do	(2)	168	.33	2.8	14.3	16.8	14
12908	Johnstown (near)	do	Sandstone	(2)	152	1.48	7.4	5.4	15.3	9
13174	do	do	do	(2)	153	.27	6.7	6.0	18.3	8

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

PENNSYLVANIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
2894	East Taylor Township	Cambria	Calcareous sandstone	(2)	168	0.38	2.8	14.2	17.5	11
13178	(1)	do	Sandstone	(2)	152	.27	8.2	4.9	16.7	7
2267	East Mauch Chunk	Carbon	Feldspathic quartzite	(2)	168	.31	2.4	16.7	19.3	15
12477	Lehigh Gap	do	Quartzite	(2)	165	.42	3.3	12.1	18.7	17
12478	do	do	Feldspathic quartzite	(2)	178	.35	2.8	14.3	18.7	16
11261	Summit Hill	do	Feldspathic sandstone	15,090	163	.83	4.7	8.5	18.0	10
7424	(1)	do	do	(2)	165	.24	2.6	15.4	18.8	13
1163	Bellefonte	Center	Limestone	(2)	168	.31	5.8	6.9	16.3	11
2251	do	do	do	(2)	168	.46	3.7	10.8	14.7	6
6766	do	do	Calcareous sandstone	(2)	165	.75	4.5	8.9	15.3	7
2431	Spring Township	do	Limestone	(2)	168	.45	4.5	8.9	13.6	6
2695	Aldham	Chester	Altered granite	(2)	168	.17	1.8	22.2	18.5	26
1955	Atglen	do	Quartzite schist	(2)	165	.47	3.0	13.3	18.7	7
2710	Avondale	do	Crystalline limestone	(2)	172	.41	13.2	3.0	14.0	3
2711	do	do	Quartzite	(2)	165	.12	7.1	5.6	(2)	(2)
2712	do	do	Marble	(2)	172	.30	4.5	8.9	14.7	5
2713	do	do	Biotite gneiss	(2)	162	.42	5.6	7.1	17.7	7
339	Cedar Hollow	do	Dolomite	(2)	178	.16	3.8	10.5	(2)	(2)
3757	do	do	do	(2)	178	.17	4.5	8.9	16.3	8
6110	do	do	Dolomitic marble	(2)	175	.38	4.7	8.5	16.0	10
964	Coatesville	do	Marble	(2)	178	.16	3.8	10.5	15.9	9
965	do	do	Limestone	(2)	175	.22	4.7	8.5	15.4	9
1546	do	do	Hornblende gneiss	(2)	190	1.24	3.1	12.9	16.6	8
5344	do	do	Marble	(2)	172	.24	5.9	6.8	11.8	5
6877	Cornog	do	Amphibolite	(2)	187	.17	3.2	12.5	15.6	8
6924	do	do	Hornblende schist	(2)	190	.11	2.1	19.0	18.8	30
14943	Devault	do	Dolomitic marble	(2)	176	.70	7.7	5.2	14.0	5
19087	do	do	Dolomite	(2)	177	.51	4.0	10.0	14.0	8
26142	do	do	Biotite-hornblende granite	31,060	171	.98	3.4	11.8	18.7	10
26143	do	do	Dolomite	39,250	178	.25	5.0	8.0	15.3	10
9068	Dorlan	do	Sericite gneiss	(2)	165	.17	3.5	11.4	18.7	13
6866	Downingtown	do	Biotite gneiss	(2)	165	.31	4.1	9.8	18.2	6
6972	do	do	Altered diorite	(2)	187	.09	2.8	14.3	17.8	9
1076	East Whiteland	do	Dolomite	(2)	178	.20	4.2	9.5	14.9	7
1077	do	do	Dolomitic limestone	(2)	178	.31	3.9	10.3	15.7	7
3355	Exton	do	Dolomite	(2)	178	.48	4.2	9.5	16.3	9
1682	Glenmore	do	Altered diabase	(2)	193	.32	2.2	18.2	19.0	36
1683	do	do	do	(2)	187	1.00	4.5	8.9	18.4	8

2043	do	do	Diabase	(2)	187	.83	2.3	17.4	19.0	32
2044	do	do	Altered diabase porphyry	(2)	187	.28	1.7	23.5	19.0	33
2045	do	do	do	(2)	187	.55	2.1	19.0	18.7	32
3345	do	do	Hornblende gneiss	(2)	190	.20	3.4	11.8	18.3	15
3540	Howellsville	do	Marble	(2)	175	.10	4.2	9.5	13.0	8
14294	do	do	do	(2)	173	.36	4.3	9.3	(2)	(2)
17919	do	do	do	(2)	175	.31	4.6	8.7	14.0	5
24525	do	do	Dolomite marble	(2)	172	.10	5.7	7.0	14.0	4
3746	Knickerbocker	do	Limestone	(2)	172	.37	4.0	10.0	17.1	15
24511	do	do	Dolomite	(2)	175	.58	4.1	9.8	15.3	7
3133	Malvern	do	Sericite schist	(2)	175	1.02	18.2	2.2	(2)	(2)
6949	Marcus Hook, Del. (near)	do	Biotite gneiss	(2)	172	.16	4.2	9.5	18.1	8
1172	St. Peters	do	Gabbro	(2)	190	.46	1.3	30.8	18.7	17
1333	do	do	Feldspathic sandstone	(2)	172	.27	5.6	7.1	18.0	27
1308	Spring City	do	do	(2)	156	1.74	3.8	10.5	18.1	15
8423	Valley Forge	do	Feldspathic quartzite	(2)	168	.34	3.5	11.4	19.3	8
1957	Wawaset	do	Eclogite	(2)	196	.28	2.6	15.4	18.7	14
3349	West Grove (near)	do	Crystalline limestone	(2)	172	.31	4.2	9.5	13.8	6
3424	do	do	Mica schist	(2)	172	.35	3.8	10.6	16.8	10
8244	Whitford	do	Quartzite	(2)	165	.26	3.0	13.3	(2)	(2)
7427	(1)	do	Dolomitic marble	(2)	178	.22	2.9	13.8	14.8	8
2792	Fryburg	Clarion	Limestone	(2)	168	.71	4.7	8.5	15.5	6
1712	Leeper	do	do	(2)	168	.42	4.4	9.1	14.5	23
2687	(1)	do	do	(2)	168	.67	4.4	9.1	16.7	9
3788	Lamar Township	Clinton	do	(2)	168	.21	5.0	8.0	15.9	10
2093	Lock Haven	do	do	(2)	168	.61	4.5	8.9	13.8	8
2094	do	do	do	(2)	168	1.38	6.5	6.2	8.4	4
2575	Salona	do	do	(2)	168	.42	5.6	7.1	15.0	5
5578	do	do	Argillaceous limestone	18,710	168	.06	4.3	9.3	15.3	8
6413	Berwick	Columbia	Calcareous slate	(2)	172	.57	10.0	4.0	7.3	10
12767	do	do	Sandstone	(2)	164	.35	4.8	8.3	18.7	14
2599	Catawissa	do	Feldspathic sandstone	(2)	168	.56	2.7	14.8	18.9	12
12181	do	do	do	(2)	167	.38	2.8	14.3	19.3	17
12186	do	do	do	(2)	166	.41	3.2	12.5	19.3	25
7807	Espy	do	Argillaceous dolomite	(2)	175	.77	4.0	10.0	15.6	14
1313	Limeridge	do	Limestone	(2)	168	.33	3.6	11.1	16.3	16
2086	Bowmansdale	Cumberland	do	(2)	168	.28	4.1	9.8	17.2	10
9354	Carlisle	do	do	(2)	168	.57	7.1	5.6	15.7	10
6281	Dickinson Township	do	do	(2)	172	.33	5.2	7.7	15.0	8
2065	Lemoyne	do	do	(2)	172	.42	3.4	11.8	17.4	9
25192	do	do	do	(2)	174	.26	4.2	9.5	18.3	12
2448	Mechanicsburg	do	do	(2)	172	.24	3.3	12.1	16.1	8
7034	Mechanicsburg (near)	do	Siliceous marble	(2)	168	.14	5.5	7.3	15.2	2
2890	Silver Spring Township	do	Diabase	(2)	187	.56	1.6	25.0	18.7	28
1734	West Fairview	do	Calcareous sandstone	(2)	168	.31	3.6	11.1	15.7	17
2004	do	do	Feldspathic sandstone	(2)	168	.21	4.1	9.8	17.2	11
2349	do	do	do	(2)	168	.50	2.9	13.8	17.4	11
3380	West Fairview (near)	do	Calcareous sandstone	(2)	172	.22	4.2	9.5	17.0	14
5813	Conewago (near)	Dauphin	Diabase	(2)	190	.24	4.1	9.8	18.3	17
6453	do	do	Gabbroitic diabase	(2)	193	.43	2.1	19.0	18.2	15
12361	do	do	Diabase	(2)	188	.35	2.8	14.3	18.0	20

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

PENNSYLVANIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
2173	Harrisburg	Dauphin	Dolomite	(2)	172	0.47	4.2	9.5	18.0	13
2174	do	do	do	(2)	175	.24	2.9	13.8	17.9	12
2784	do	do	Calcareous sandstone	(2)	168	.26	3.5	11.4	15.2	13
2383	High Spire	do	Limestone	(2)	168	.59	3.9	10.3	13.3	6
7295	Hummelstown	do	Dolomitic limestone	(2)	175	.46	3.7	10.8	17.7	7
8720	do	do	do	(2)	178	.23	4.1	9.8	17.3	10
6104	Hummelstown (2 miles from)	do	Calcareous sandstone	(2)	168	.53	4.2	9.5	16.0	19
2051	Londonderry Township	do	Diabase	(2)	190	.15	2.3	17.4	18.2	17
1894	Paxtang	do	Limestone	(2)	172	.21	3.2	12.5	17.3	14
5902	Rockville	do	Quartzite	(2)	168	.45	2.2	18.2	19.1	20
5903	do	do	Sandstone	(2)	153	8.68	5.6	7.1	18.7	7
5904	do	do	Quartzite	(2)	165	.37	2.4	16.7	19.3	23
5905	do	do	Feldspathic sandstone	(2)	165	.67	2.2	18.2	17.8	26
1395	Steelton	do	Dolomite	(2)	147	.29	4.2	9.5	18.3	18
7482	(1)	do	Dolomitic marble	(2)	175	.45	3.0	13.3	17.3	9
8306	(1)	do	Limestone	8,510	168	.57	5.5	7.3	14.2	2
8427	(1)	do	do	19,250	168	.27	5.4	7.4	15.0	(2)
8465	(1)	do	Siliceous dolomite	9,638	175	.28	3.6	11.1	16.3	8
254	Glen Mills	Delaware	Eclogite	(2)	(2)	(2)	2.8	14.3	(2)	(2)
998	do	do	do	(2)	184	.10	1.8	22.2	(2)	(2)
1780	do	do	Hornblende schist	(2)	200	.26	2.7	14.8	18.7	24
2626	do	do	Diorite	(2)	193	.34	2.2	18.2	17.0	12
2800	do	do	Pyroxene quartzite	(2)	190	.24	2.0	20.0	18.5	22
4042	do	do	Eclogite	(2)	193	.10	1.9	21.1	18.5	28
5970	do	do	Pyroxene quartzite	(2)	196	.15	1.9	21.1	18.3	18
24524	do	do	do	(2)	183	.15	2.3	17.4	18.7	7
28154	do	do	Quartz biotite schist	(2)	175	.14	3.3	12.1	18.0	15
7751	Lansdowne	do	Hornblende schist	(2)	187	.54	3.8	10.5	16.7	7
5827	Lenni	do	Hornblende gneiss	(2)	181	.19	2.7	14.8	18.3	10
7682	do	do	Biotite gneiss	(2)	171	.20	2.8	14.3	18.6	13
8421	(1)	do	do	(2)	175	.42	2.5	16.0	18.7	12
10357	(1)	do	do	(2)	(2)	(2)	(2)	(2)	18.0	9
5881	Daguscahonda	Elk	Feldspathic sandstone	(2)	156	2.95	5.0	8.0	16.7	7
1354	Kersey	do	Limestone	(2)	172	.11	3.8	10.5	(2)	(2)
5870	St. Marys (near)	do	Argillaceous limestone	(2)	168	.49	5.0	8.0	16.0	5
6097	Bidwell	Fayette	Limestone	13,450	168	.90	3.0	13.3	15.7	12
4025	Bluestone	do	Calcareous sandstone	(2)	168	.20	2.6	15.4	18.0	11
3161	Brownsville (near)	do	Limestone	(2)	168	.51	3.5	11.4	17.6	12
21366	Casparis	do	Siliceous limestone	31,090	167	.18	2.7	14.8	16.0	14

22710	do	do	do	(2)	166	.57	2.4	16.7	17.7	15
24625	do	do	do	(2)	167	.40	3.1	12.9	17.5	9
24490	Cheat Haven	do	Feldspathic sandstone	12,800	156	3.88	6.4	6.2	16.0	4
6629	Connellsville	do	Siliceous limestone	(2)	168	.06	2.5	16.0	16.3	18
2612	Connellsville (3 miles east of)	do	Limestone	(2)	168	.24	2.4	16.7	17.6	13
9347	Connellsville (east of)	do	do	26,050	168	.47	3.2	12.5	17.3	12
9773	do	do	Siliceous limestone	(2)	168	.46	2.8	14.3	17.7	13
9374	Cool Spring	do	do	(2)	165	.19	3.0	13.3	18.2	11
5290	Dunbar Township	do	do	(2)	168	.27	2.4	16.7	17.1	15
1925	Dunbar	do	Limestone	(2)	168	.26	2.3	17.4	18.3	14
2028	do	do	do	(2)	168	.34	2.3	17.4	17.0	9
3853	Dunbar (6 miles from)	do	do	(2)	168	.34	3.6	11.1	16.6	7
3852	Evans	do	do	(2)	168	2.16	3.1	12.9	15.5	17
1956	Farmington	do	do	(2)	168	.52	4.0	10.0	15.7	8
3130	Fayette City	do	do	(2)	168	.20	5.5	7.3	16.3	4
1967	Humberston	do	do	(2)	168	.41	2.6	15.4	16.0	9
5771	Indian Creek	do	Calcareous sandstone	37,740	168	.28	3.3	12.1	17.0	17
2079	Masontown	do	Limestone	(2)	168	2.42	3.9	10.3	16.5	9
2080	do	do	Sandstone	(2)	156	3.14	10.1	4.0	(2)	3
13993	Point Marion	do	Feldspathic sandstone	(2)	151	3.53	10.3	3.9	11.0	6
2040	Somerfield (near)	do	Limestone	(2)	168	.80	5.5	7.3	14.3	(2)
2041	do	do	do	(2)	168	.65	3.1	12.9	15.9	10
2226	Somerfield (3 miles from)	do	do	(2)	168	.46	2.6	15.4	16.2	9
1941	Uniontown	do	do	(2)	168	.70	4.4	9.1	13.0	5
3789	do	do	Siliceous limestone	(2)	168	.15	2.9	13.8	17.3	11
3806	do	do	do	(2)	168	.32	3.4	11.8	17.8	11
5692	do	do	Limestone	(2)	168	.23	3.5	11.4	15.7	7
2228	Uniontown (7 miles from)	do	do	(2)	168	.72	5.2	7.7	13.5	5
9402	Uniontown (near)	do	Siliceous limestone	(2)	168	.37	3.5	11.4	11.2	[illegible]
15199	Fayetteville	Franklin	Quartzite	(2)	158	.85	4.9	8.2	19.0	11
2600	Guilford	do	do	(2)	162	.40	4.3	9.3	19.2	9
3142	Mercersburg	do	Limestone	(2)	168	.33	4.3	9.3	15.8	9
3141	Montgomery Township	do	Dolomite	(2)	178	.52	3.2	12.5	17.9	10
2677	Richmond Furnace	do	Limestone	(2)	175	.21	2.4	16.7	17.3	18
2089	Waynesboro (near)	do	Dolomitic limestone	(2)	175	.77	3.6	11.1	17.5	9
2113	Brady Township	Huntingdon	Limestone	(2)	168	.41	5.0	8.0	15.5	5
2119	do	do	do	(2)	168	.52	4.1	9.8	15.3	5
2120	do	do	Sandstone	(2)	(2)	(2)	6.5	6.2	18.5	5
2121	do	do	do	(2)	(2)	(2)	(2)	(2)	16.7	7
2212	do	do	Limestone	(2)	172	.24	4.0	10.0	15.0	9
2215	do	do	do	(2)	168	.37	5.4	7.4	16.0	7
2126	Huntingdon	do	do	(2)	175	.22	3.1	12.9	16.7	14
2127	do	do	Siliceous dolomite	(2)	168	.53	4.5	8.9	(2)	(2)
2692	do	do	Feldspathic sandstone	(2)	168	.42	2.2	18.2	17.5	24
5337	do	do	Limestone	(2)	168	.42	4.8	8.3	15.6	7
5726-1	do	do	Feldspathic sandstone	(2)	165	.42	2.5	16.0	18.1	21
5726-2	do	do	do	(2)	165	.69	3.3	12.1	18.6	14
7432	do	do	Argillaceous limestone	(2)	172	.52	(2)	(2)	16.0	4
2345	Mill Creek	do	Limestone	(2)	168	.94	4.8	8.3	15.2	5
2275	Mount Union	do	do	(2)	168	.62	4.2	9.5	14.4	6
2337	Shirley Township	do	do	(2)	168	.36	4.1	9.8	15.2	6

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

PENNSYLVANIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
2242	Union Furnace	Huntingdon	Dolomite	(2)	178	0.16	3.5	11.4	16.1	11
2491	do	do	Limestone	(2)	168	.23	3.8	10.5	16.2	7
12379	do	do	Marble	(2)	173	.33	3.9	10.3	15.7	7
2243	Warrior's Mark	do	Siliceous limestone	(2)	175	.52	2.5	16.0	18.2	14
5604	Water Street	do	Feldspathic sandstone	(2)	168	.70	2.3	17.4	18.7	20
2211	(1)	do	Limestone	(2)	168	.21	6.6	6.1	11.0	4
2341	(1)	do	Sedimentary limestone	(2)	168	.57	3.7	10.8	15.8	6
2342	(1)	do	do	(2)	168	.24	4.5	8.9	17.3	6
7431	(1)	do	Carbonaceous limestone	(2)	168	.31	5.0	8.0	16.3	5
2834	Indiana	Indiana	Limestone	(2)	168	.06	2.7	14.8	16.8	13
2835	do	do	Sandstone	(2)	150	3.26	18.8	2.1	5.7	5
5495	Mifflin	Juniata	Argillaceous limestone	(2)	172	.31	4.4	9.1	16.3	[illegible]
2047	Dunmore	Lackawanna	Sandstone	(2)	162	.88	2.5	16.0	18.3	9
2317	Glenburn	do	Ferruginous sandstone	(2)	168	1.22	4.0	10.0	15.4	15
1888	Scranton	do	Sandstone	(2)	165	.34	2.0	20.0	17.7	15
3191	do	do	do	(2)	162	.66	3.7	10.8	19.0	9
1688	Bart Township	Lancaster	Diabase	(2)	187	.22	1.8	22.2	19.1	39
1534	Eden Township	do	do	(2)	187	.24	1.7	23.5	18.5	39
5326	Elizabethtown	do	do	(2)	193	.32	1.8	22.2	17.9	18
5380	Gap	do	Micaceous marble	(2)	172	.29	5.0	8.0	11.5	7
6113	do	do	Dolomitic marble	(2)	181	.22	7.6	5.3	12.7	4
6663	do	do	do	(2)	181	.23	4.7	8.5	11.8	4
6670	do	do	do	(2)	178	.30	4.8	8.3	13.6	6
1847	Lancaster	do	Olivine diabase	(2)	190	.35	3.7	10.8	17.6	13
2945	do	do	Diabase	(2)	187	.30	1.8	22.2	18.7	29
8139	do	do	Calcareous schist	(2)	172	.40	4.0	10.0	15.5	5
7048	Lititz	do	Limestone	(2)	168	.17	5.0	8.0	12.7	4
7091	do	do	Marble	(2)	172	.08	4.2	9.5	11.5	5
6283	Maytown	do	Limestone	(2)	165	.33	6.0	6.7	15.8	5
7044	Millway	do	do	(2)	172	.18	3.9	10.3	16.5	8
2026	Mount Hope	do	Diabase	(2)	193	.28	1.9	21.1	18.3	30
5548	Quarryville	do	Marble	(2)	168	.20	5.2	7.7	14.5	5
1590	Refton	do	Dolomite	(2)	178	.24	3.9	10.3	11.8	9
1614-A	do	do	do	(2)	178	1.14	4.7	8.5	12.7	6
3423	Rheems	do	Limestone	(2)	168	.46	5.8	6.9	15.2	14
7809	do	do	do	(2)	174	.52	4.9	8.2	16.7	16
6700	Rothsville	do	Argillaceous dolomite	(2)	178	.35	4.5	8.9	16.0	4
7047	do	do	Limestone	(2)	178	.16	4.3	9.3	16.9	10
6567	Salisbury	do	Siliceous limestone	(2)	168	.37	3.7	10.8	14.3	9
6568	do	do	Calcareous schist	(2)	181	.28	15.2	2.6	(2)	(2)

1569	Strasburg Township	do	Dolomite	(2)	178	.45	5.0	8.0	14.3	4
1123	West Donegal Township	do	Diabase	(2)	187	.26	(2)	(2)	18.2	39
1222	do	do	Gabbro	(2)	190	.34	2.4	16.7	18.3	18
2686	Chewton	Lawrence	Limestone	(2)	168	.39	4.4	9.1	15.8	8
2460	Ellwood City (near)	do	do	(2)	168	.64	4.5	8.9	(2)	(2)
4322	Rock Point (near)	do	do	(2)	168	.48	5.1	7.8	15.6	7
5557	Walford	do	do	27,500	168	.25	4.9	8.2	16.5	7
2717	Wayne Township	do	do	(2)	168	.45	3.9	10.3	16.5	9
6532	Annville	Lebanon	Carbonaceous dolomite	(2)	175	.83	2.9	13.8	17.0	7
6632	Cornwall	do	Dolomitic limestone	(2)	178	.50	4.1	9.8	13.7	8
6612	Lebanon	do	Dolomite	(2)	175	.48	3.7	10.8	17.6	20
6887	do	do	Siliceous limestone	(2)	172	.20	3.8	10.5	16.1	9
6682	do	do	Argillaceous limestone	(2)	168	.34	4.3	9.3	12.9	9
7540	do	do	Siliceous limestone	(2)	169	.20	4.3	9.3	15.8	3
7653	do	do	Argillaceous limestone	(2)	172	.17	3.2	12.5	14.7	7
2374	Sheridan	do	Marble	(2)	172	.12	3.6	11.1	16.5	6
6593	South Lebanon Township	do	Limestone	(2)	168	.31	4.1	9.8	13.3	6
1692	Allentown	Lehigh	Dolomite	(2)	175	.07	6.9	5.8	18.6	20
7556	do	do	do	(2)	(2)	(2)	(2)	(2)	16.4	10
6327	Catasauqua	do	Argillaceous dolomite	(2)	175	.17	2.4	16.7	(2)	(2)
14999	Emaus	do	Altered diorite	(2)	175	.77	5.8	6.9	(2)	7
15351	do	do	Diorite	(2)	184	.91	5.0	8.0	18.0	10
1207	Vera Cruz	do	Gneiss	(2)	172	.46	(2)	(2)	18.6	14
2662	do	do	Syenite	(2)	172	.36	2.3	17.4	18.3	16
1114	Conyngham	Luzerne	Feldspathic sandstone	(2)	168	.37	1.8	22.2	17.0	23
6305	Duryea	do	Calcareous sandstone	(2)	168	.46	2.4	16.7	15.5	10
11255	do	do	do	(2)	167	.41	3.4	11.8	16.7	13
1396	Hazleton	do	Feldspathic sandstone	(2)	165	1.60	3.3	12.1	15.6	10
1698	do	do	Sandstone	(2)	168	1.12	3.7	10.8	15.7	13
2577	Lehigh Tannery	do	Feldspathic sandstone	(2)	168	.11	2.0	20.0	18.3	22
6308	Pittston (near)	do	Calcareous sandstone	(2)	165	.55	3.0	13.3	16.3	12
7681	Pittston	do	do	(2)	168	.35	2.9	13.8	18.6	7
23850	Shickshinny (2 miles from)	do	Feldspathic quartzite	(2)	166	.70	2.8	14.3	18.3	17
7680	Wapwallopen	do	Feldspathic sandstone	(2)	168	.31	1.7	23.5	18.3	33
1278	White Haven	do	Feldspathic quartzite	(2)	168	.15	2.1	19.0	18.6	20
1874	do	do	Sandstone	(2)	165	.32	1.0	40.0	18.5	23
7424	do	do	Feldspathic quartzite	(2)	165	.24	2.6	15.4	18.8	13
7679	do	do	do	(2)	165	.40	1.9	21.1	18.7	22
11352	do	do	do	36,000	(2)	(2)	(2)	(2)	(2)	19
18104	do	do	Sandstone	(2)	169	.17	2.6	15.4	18.3	16
697	Wilkesbarre	do	do	(2)	168	.46	3.4	11.8	(2)	(2)
1074	do	do	Feldspathic sandstone	(2)	168	.32	2.8	14.3	18.6	37
1075	do	do	Slate	(2)	172	.49	(2)	(2)	18.0	22
2993	do	do	Feldspathic sandstone	(2)	168	.44	2.3	17.4	18.8	32
1252	(1)	do	Feldspathic quartzite	(2)	168	.18	1.8	22.2	18.0	26
8406	(1)	do	Feldspathic sandstone	(2)	165	.42	2.2	18.2	19.2	11
1653	Cogan House Township	Lycoming	Calcareous sandstone	(2)	165	1.09	4.8	8.3	13.0	7
5721	Hughesville	do	Argillaceous sandstone	(2)	168	.80	3.3	12.1	12.3	13
1872	Jersey Shore	do	Limestone	(2)	172	.38	4.1	9.8	17.3	10
10672	do	do	Siliceous limestone	20,360	166	.44	2.6	15.4	18.2	9

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

PENNSYLVANIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
22478	Jersey Shore	Lycoming	Limestone	23,030	167	0.37	3.1	12.9	18.8	9
2751	Jersey Shore (near)	do	do	(2)	168	(2)	5.1	7.8	14.3	8
6153	do	do	Argillaceous limestone	28,585	165	.58	3.8	10.5	18.0	22
6154	do	do	do	26,860	168	.56	4.2	9.5	17.3	21
6155	do	do	do	18,610	172	1.26	5.4	7.4	12.5	14
6156	do	do	Limestone	22,930	168	.44	4.6	8.7	16.0	11
6157	do	do	do	21,900	172	.43	3.0	13.3	16.5	8
6158	do	do	do	14,160	168	.65	3.2	12.5	14.7	7
4735	Larryville	do	Feldspathic sandstone	(2)	162	1.10	4.6	8.7	18.2	22
19239	Lime Bluff	do	Argillaceous limestone	21,160	168	.27	7.3	5.5	14.7	8
1745	Linden	do	Dolomite	(2)	175	.51	5.4	7.4	15.3	10
6691	Lower Fairfield Township	do	Limestone	(2)	168	.18	4.7	8.3	16.2	8
7453	Loyalsock Township	do	Carbonaceous limestone	(2)	168	1.47	4.1	9.8	16.8	8
1279	Montgomery (near)	do	Limestone	(2)	172	.78	4.9	8.2	8.7	9
7477	Montoursville	do	Calcareous chert	(2)	165	.96	4.9	8.2	19.7	3
10518	do	do	Argillaceous limestone	23,460	168	.10	6.6	6.1	16.2	6
12929	Montoursville (near)	do	Limestone	(2)	169	.18	7.5	5.3	15.3	5
6880	Muncy Township	do	Siliceous limestone	(2)	172	.22	7.4	5.4	13.0	6
7322	do	do	Limestone	(2)	168	.47	6.0	6.7	15.7	4
1121	Newberry	do	Diabase	(2)	190	.25	(2)	(2)	18.6	31
1122	do	do	do	(2)	190	.19	(2)	(2)	18.7	54
3783	Piatt Township	do	Sandstone	(2)	162	.75	3.3	12.1	17.7	13
7445	Picture Rocks	do	Feldspathic sandstone	(2)	162	1.72	2.6	15.4	19.2	19
1164	Porter Township	do	Limestone	(2)	168	.58	4.6	8.7	16.2	8
914	Williamsport	do	Sandstone	(2)	162	2.00	2.9	13.8	16.4	33
1103	do	do	Calcareous shale	(2)	172	.87	(2)	(2)	13.9	3
1139	do	do	Slaty limestone	(2)	168	.36	7.4	5.4	14.6	13
1161	do	do	Limestone	(2)	168	.24	5.8	6.9	16.4	8
3868	do	do	Argillaceous limestone	(2)	168	.40	4.8	8.3	17.3	8
4035	do	do	Feldspathic sandstone	(2)	162	2.12	(2)	(2)	13.7	9
4036	do	do	do	(2)	162	2.46	(2)	(2)	12.3	8
4037	do	do	do	(2)	162	2.13	(2)	(2)	12.3	8
3376	(1)	do	Calcareous sandstone	(2)	165	1.13	6.8	5.9	16.0	24
3224	Lewistown	Mifflin	Limestone	(2)	168	.29	4.1	9.8	18.3	18
8653	do	do	Argillaceous limestone	(2)	168	.35	2.3	17.4	16.8	7
4396	Milroy	do	Siliceous limestone	(2)	172	.42	3.0	13.3	17.0	17
2224	Naginey	do	Limestone	(2)	168	.38	4.9	8.2	15.0	10
2531	Reedsville	do	do	(2)	165	.83	5.5	7.3	11.9	4
5438	(1)	do	Sandstone	(2)	165	.32	4.1	9.8	17.4	8

1816	Smithfield Township	Monroe	Calcareous slate	(2)	168	.33	3.9	10.3	15.0	14
1359	Tobyhanna	do	Feldspathic sandstone	(2)	168	.25	3.7	10.8	18.4	19
2624	Ambler	Montgomery	Slate	(2)	175	.73	4.5	8.9	16.2	6
4601	Bethayres	do	Granite gneiss	(2)	165	.32	4.8	8.3	18.7	17
2322	Bridgeport	do	Feldspathic sandstone	(2)	159	1.32	3.1	12.9	19.4	14
8050	Bryn Athyn	do	Aplitic granite	(2)	165	.22	4.6	8.7	19.0	6
9448	do	do	Eclogite	(2)	184	.13	3.3	12.1	19.3	15
2274	Conshohocken (near)	do	Limestone	(2)	178	.53	4.2	9.5	16.0	8
7667	do	do	Schistose quartzite	(2)	162	.59	4.0	10.0	19.3	14
6665	Fort Washington	do	Quartzite schist	(2)	165	.19	4.5	8.9	18.1	[3] 18 4
1895	Franconia Township	do	Slate	(2)	168	.24	2.5	16.0	16.5	6
1037	Green Lane	do	Argillite	(2)	172	.68	2.6	15.4	17.9	17
2049	do	do	Indurated slate	(2)	168	.75	1.7	23.5	18.9	40
2092	do	do	Gabbro	(2)	193	.34	2.5	16.0	17.5	12
2172	do	do	Slate	(2)	175	.59	2.6	15.4	15.4	10
2558	do	do	Diabase	(2)	193	.31	2.7	14.9	17.1	8
2682	do	do	Altered diabase	(2)	181	.28	1.6	25.0	18.5	40
2683	do	do	Slate	(2)	172	.21	2.1	19.0	18.6	38
2684	do	do	Calcareous sandstone	(2)	168	1.85	2.0	20.0	18.7	23
2760	do	do	Diabase	(2)	187	.42	1.4	28.6	18.5	33
5197	do	do	Siliceous slate	(2)	172	.57	2.9	13.6	18.9	52
8728	do	do	Micaceous slate	(2)	172	.42	2.0	20.0	17.5	17
12261	do	do	Altered slate	(2)	169	.30	2.3	17.4	17.3	24
16587	do	do	Siliceous slate	(2)	172	.38	4.2	9.5	18.0	[3] 15 5
365	Hatboro	do	Ferruginous sandstone	(2)	165	.83	4.0	10.0	(2)	(2)
2039	Hendricks	do	Calcareous slate	(2)	165	1.24	2.2	18.2	16.4	8
8114	Huber Heights (near Norristown)	do	Siliceous limestone	(2)	175	.50	3.4	11.8	17.4	10
7853	Huntingdon Valley	do	Granite gneiss	(2)	168	.16	5.1	7.8	18.8	20
8418	do	do	do	(2)	165	.34	3.4	11.8	19.3	15
2021	Ivy Rock	do	Dolomite	(2)	175	.82	4.1	9.8	14.7	8
13939	do	do	Dolomitic marble	(2)	177	.26	4.9	8.2	15.3	7
17921	Lafayette Hill	do	Granite	(2)	168	.54	3.2	12.5	19.0	10
7420	Linfield	do	Ferruginous sandstone	(2)	156	2.53	3.0	13.3	18.5	9
6639	Lower Gwynedd Township	do	Slate	(2)	168	1.24	2.7	14.8	13.5	17
7463	Norristown	do	Dolomitic marble	(2)	178	.32	4.1	9.8	15.9	6
6719	Norristown (near)	do	do	(2)	178	.26	4.5	8.9	14.5	5
14770	do	do	Siliceous slate	(2)	172	.95	1.7	23.5	(2)	(2)
2261	Paper Mills Station	do	Pyroxene granulite	(2)	190	.16	2.7	14.6	19.2	14
8689	Pencoyd	do	Granite	(2)	175	.32	(2)	(2)	18.3	12
8785	do	do	Granite gneiss	(2)	165	.32	2.6	15.4	18.2	8
3406	Phoenixville (near)	do	Siliceous limestone	(2)	168	.80	3.0	13.3	17.2	14
6885	do	do	Feldspathic sandstone	(2)	181	.34	2.0	20.0	18.8	44
8087	Plymouth Meeting	do	Dolomitic marble	(2)	178	.54	4.0	10.0	12.7	6
8212	Plymouth Township	do	do	(2)	178	.22	3.6	11.1	15.8	8
8213	do	do	do	(2)	178	.24	3.4	11.8	17.0	9
1315	Port Kennedy	do	Dolomite	(2)	178	.22	4.2	9.5	9.0	11
1316	do	do	Diabase	(2)	181	.26	2.8	14.3	(2)	(2)
6624	do	do	Dolomitic marble	(2)	168	.12	6.3	6.3	14.8	5

[1] Exact location not known

[2] Test not made.

[3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

PENNSYLVANIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
6459	Pottstown	Montgomery	Siliceous slate	(2)	172	0.76	2.1	19.0	18.5	13
6460	do	do	do	(2)	172	.75	2.1	19.0	18.3	43
8211	do	do	do	(2)	168	.36	2.0	20.0	19.1	[3] 12 45
5132	Salfordville	do	Argillaceous sandstone	(2)	172	1.22	2.2	18.2	15.8	6
5080	Sumneytown	do	Slate	(2)	172	.24	2.6	15.4	18.7	24
7669	Upper Salford Township	do	Siliceous slate	(2)	171	1.37	4.4	9.1	18.2	11
6862	Westmoreland Township	do	Eclogite	(2)	184	.19	2.8	14.3	18.8	20
6926	do	do	do	(2)	184	.19	2.6	15.4	18.4	19
6638	Whitemarsh Township	do	Feldspathic quartzite	(2)	162	.74	3.3	12.1	18.9	19
8008	(1)	do	Dolomitic marble	(2)	178	.21	7.3	5.5	14.3	3
14691	(1)	do	Siliceous limestone	(2)	169	.35	2.3	17.4	17.7	19
1879	Danville	Montour	Chert	(2)	125	4.28	6.0	6.7	15.0	7
2186	Bath	Northampton	Siliceous dolomite	(2)	175	.10	2.1	19.0	17.7	13
12688	Bethlehem (near)	do	Dolomite	38,949	174	.04	4.9	8.2	15.0	10
12690	do	do	Limestone	18,990	171	.14	5.2	7.7	14.7	7
12691	do	do	do	21,440	167	.28	6.2	6.5	11.8	8
1032	Easton	do	do	(2)	178	.21	3.5	11.4	15.4	10
1508	do	do	Altered diorite	(2)	187	.30	1.9	21.1	17.8	21
2014	do	do	Dolomite	(2)	175	.26	3.6	11.1	17.9	17
4599	Lehigh Gap	do	Slate	(2)	172	.25	7.8	5.1	10.8	9
1223	Nazareth	do	Dolomite	(2)	175	.22	2.4	16.7	17.4	27
2240	do	do	Argillaceous limestone	(2)	165	1.44	4.2	9.5	10.9	6
730	Redington	do	Dolomite	(2)	178	.08	5.5	7.3	(2)	(2)
3322	Siegfried	do	do	(2)	175	.30	2.5	16.0	17.3	19
3323	do	do	do	(2)	175	.23	2.8	14.3	17.4	12
352	(1)	do	Hornblende diorite	(2)	181	.30	2.8	14.3	(2)	(2)
1994	Dalmatia	Northumberland	Sandstone	(2)	165	.49	1.7	23.5	19.0	25
6079	do	do	Feldspathic sandstone	(2)	165	.24	2.1	19.0	19.0	33
12234	do	do	do	(2)	166	.43	2.4	16.7	19.5	(2)
1105	Dewart	do	Limestone	(2)	165	.40	3.8	10.5	15.6	9
1165	do	do	do	(2)	168	.36	4.6	8.7	15.5	8
2357	McEwensville	do	Siliceous limestone	(2)	159	2.01	10.0	4.0	16.6	9
10429	Mount Carmel	do	Quartzite	(2)	163	.53	3.3	12.1	19.0	13
6092	Shamokin	do	Feldspathic sandstone	(2)	165	.31	3.0	13.3	18.7	16
2507	Sunbury (near)	do	Limestone	(2)	168	.63	5.6	7.1	15.8	7
21395	do	do	Argillaceous limestone	(2)	168	.21	10.0	4.0	13.3	4
1162	Turbotville	do	Limestone	(2)	168	.49	6.1	6.6	17.0	10

1998	Watsontown	do	do	(2)	172	.32	3.3	12.1	13.2	7
8081	(1)	do	do	(2)	168	.82	6.0	6.7	14.7	5
1003	Fort Hunter (near)	Perry	Indurated sandstone	(2)	165	.50	2.5	16.0	17.9	21
2013	Marysville	do	Sandstone	(2)	165	.49	1.8	22.2	18.0	15
2225	do	do	Feldspathic sandstone	(2)	165	.78	1.3	30.8	18.2	11
2339	do	do	do	(2)	162	.98	2.0	20.0	19.0	16
3016	do	do	do	(2)	165	.34	1.7	23.5	18.4	26
3379	do	do	do	(2)	162	.93	2.1	19.0	18.3	24
3425	do	do	do	(2)	165	.53	2.5	16.0	18.9	28
3426	do	do	do	(2)	165	.94	2.6	15.4	17.6	13
6896	Frankford	Philadelphia	Hornblende gneiss	(2)	181	.21	3.8	10.5	16.8	6
9812	Holmesburg	do	Biotite gneiss	21,530	165	.58	(2)	(2)	19.0	7
11410	do	do	do	25,930	(2)	(2)	(2)	(2)	18.7	7
13907	do	do	Granite	(2)	(2)	(2)	4.9	8.2	18.7	8
4623	Oreland (near)	do	Dolomite	(2)	178	.40	6.4	6.2	(2)	(2)
5633	Philadelphia	do	Argillaceous sandstone	(2)	(2)	(2)	(2)	(2)	15.8	15
4624	do	do	Calcareous slate	(2)	168	.24	5.1	7.8	(2)	(2)
4626	do	do	Marble	(2)	172	.59	5.0	8.0	13.5	8
30078	do	do	Gneissoid granite	(2)	166	.23	1.8	22.2	(2)	(2)
2932	Greentown	Pike	Feldspathic sandstone	(2)	168	.91	5.2	7.7	7.5	9
2933	do	do	do	(2)	165	.74	3.2	12.5	17.7	8
14785	Matamoras	do	do	(2)	165	1.04	5.0	8.0	15.0	10
11190	Shohola	do	do	25,250	170	.63	3.2	12.5	16.7	12
4392	Portage Township	Potter	Sandstone	(2)	159	3.16	6.5	6.2	11.7	6
6630	Ancheys Station	Schuylkill	Feldspathic sandstone	(2)	168	.42	2.4	16.7	17.8	32
4814	Port Clinton	do	Quartzite	(2)	162	.41	2.2	18.2	19.3	20
2299	Ringtown	do	Feldspathic sandstone	(2)	168	.75	2.3	17.4	17.7	15
7310	Rock	do	do	(2)	168	.77	2.7	14.8	15.0	11
6556	Roeders Station	do	Slate	(2)	172	.41	4.0	10.0	12.3	28
6721	do	do	Sandstone	(2)	162	.80	6.7	6.0	17.9	6
7179	do	do	do	(2)	162	.75	6.4	6.2	18.8	6
2210	Sittler	do	Calcareous shale	(2)	168	.61	5.4	7.4	15.0	8
6657	Summit Station	do	Feldspathic sandstone	(2)	168	.50	2.4	16.7	17.5	9
2546	Shamokin Dam	Snyder	Chert and limestone	(2)	168	2.72	4.1	9.8	14.7	7
8925	Boswell	Somerset	Limestone	(2)	168	1.05	4.4	9.1	17.3	10
8926	do	do	Argillaceous limestone	(2)	172	.39	4.9	8.2	17.0	14
10345	Confluence	do	Calcareous sandstone	24,790	168	.34	3.6	11.1	16.7	7
4185	Fairhope Township	do	Conglomerate	(2)	165	.36	7.7	5.2	(2)	(2)
3243	McSpadden	do	Siliceous sandstone	(2)	168	.58	2.5	16.0	18.2	11
2052	Paint Township	do	Impure limestone	(2)	178	.27	3.5	11.4	16.9	15
2009	Somerfield	do	Limestone	(2)	168	.64	3.4	11.8	15.7	14
2036	do	do	do	(2)	168	.53	4.3	9.3	14.0	6
5246	Colley Township	Sullivan	Conglomerate sandstone	(2)	165	1.36	7.0	5.7	15.7	8
3929	Brooklyn	Susquehanna	Sandstone	(2)	165	1.42	5.0	8.0	13.0	11
3930	do	do	do	(2)	165	1.47	5.1	7.8	12.3	10
4065	do	do	do	(2)	165	1.81	4.6	8.7	11.7	8
6659	Susquehanna	do	Limestone	(2)	168	.30	3.8	10.5	13.9	6
3934	Charleston Township	Tioga	Calcareous sandstone	(2)	168	.86	3.6	11.1	16.3	26
3945	do	do	Sandstone	(2)	159	2.81	4.3	9.3	6.0	10
4077	do	do	Calcareous sandstone	(2)	168	.43	2.5	16.0	16.5	19

[1] Exact location and known.

[2] Test not made.

[3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

PENNSYLVANIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
3061	Delmar Township	Tioga	Calcareous sandstone	(2)	168	0.78	03.3	12.1	16.3	7
2827	Duncan Township	do	do	(2)	172	.40	4.2	9.5	16.3	13
1516	Mansfield	do	Siliceous limestone	(2)	168	.36	5.0	8.0	12.5	5
3784	Richmond Township	do	Sandstone	(2)	165	.38	3.5	11.4	19.0	21
1883	Wellsboro (near)	do	do	(2)	165	1.64	3.0	13.3	12.0	13
2425	Wellsboro	do	Limestone	(2)	165	1.15	4.7	8.5	16.7	12
3732	do	do	Argillaceous sandstone	(2)	168	.47	5.4	7.4	17.5	25
6761	Allenwood	Union	Clay shale	(2)	168	1.73	11.8	3.4	.0	3
1644	Lewisburg	do	Limestone	(2)	168	1.23	4.5	8.9	14.7	5
2134	do	do	do	(2)	168	.81	3.9	10.3	15.7	4
2788	do	do	do	(2)	168	.73	4.9	8.2	14.8	5
5882	Mifflinburg	do	Argillaceous limestone	(2)	168	.19	5.5	7.3	14.8	8
5883	do	do	Limestone	(2)	168	.39	5.3	7.5	15.6	6
3202	Franklin (near)	Venango	Argillaceous sandstone	(2)	150	4.69	4.5	8.9	.3	7
1185	Warren	Warren	Feldspathic sandstone	(2)	159	2.73	(2)	(2)	.0	8
2604	do	do	do	(2)	159	2.58	3.6	11.1	5.8	9
3707	Monongahela	Washington	Limestone	(2)	172	.24	4.0	10.0	15.8	12
3708	do	do	do	(2)	162	3.19	3.3	12.1	16.3	16
2613	Washington	do	Argillaceous limestone	(2)	168	.73	2.8	14.3	16.5	12
2614	do	do	Dolomitic limestone	(2)	175	.95	2.6	15.4	16.8	14
2327	Buckingham Township	Wayne	Feldspathic sandstone	(2)	165	1.50	3.3	12.1	14.0	8
2370	do	do	Ferruginous sandstone	(2)	168	1.30	3.8	10.5	12.5	10
5566-A	do	do	Conglomeratic sandstone	(2)	156	3.22	11.0	3.6	.0	4
5566-B	do	do	do	(2)	175	1.21	6.7	6.0	15.3	7
5830	Prompton	do	Feldspathic sandstone	26,340	168	.32	3.4	11.8	17.8	12
2911	Steene Station (near)	do	do	(2)	168	.56	2.7	14.8	17.4	9
5605	Blairsville Intersection	Westmoreland	Siliceous limestone	32,560	168	.41	2.1	19.0	17.2	19
2481	Greensburg	do	Limestone	(2)	168	1.01	3.7	10.8	16.9	10
8911	Ligonier	do	Siliceous limestone	22,500	168	.16	2.6	15.4	17.3	8
1072	Long Bridge	do	do	(2)	168	.21	(2)	(2)	17.0	13
2055	Loyalhanna Township	do	Feldspathic sandstone	(2)	159	2.91	2.7	14.8	13.3	9
2750	McKeesport (near)	do	Limestone	(2)	172	.96	3.2	12.5	17.0	13
2879	Mount Pleasant	do	do	(2)	168	.57	4.2	9.5	16.9	8
2533	North Huntingdon Township	do	do	(2)	165	1.01	4.9	8.2	16.7	8
1258	Saltsburg	do	Calcareous sandstone	(2)	165	1.64	3.6	11.1	9.9	11
21311	Smithton	do	Limestone	(2)	171	.20	4.2	9.5	16.7	11
7900	(1)	do	Siliceous limestone	(2)	168	.33	2.3	17.4	16.7	8
5388	Black Walnut	Wyoming	Sandstone	(2)	165	1.33	4.8	8.3	14.6	12
1873	Nicholson	do	Feldspathic sandstone	(2)	168	1.49	3.8	10.5	16.0	10

7049	Campbell	York	Limestone	(2)	178	.22	3.9	10.3	17.1	6
1694	Carroll Township	do	Diabase	(2)	187	.35	1.8	22.2	18.3	22
2936	Dillsburg (near)	do	Feldspathic sandstone	(2)	150	4.32	6.5	6.2	16.6	10
2937	do	do	Diabase	(2)	187	.41	2.2	18.2	19.1	26
2938	do	do	Ferruginous sandstone	(2)	147	4.46	13.4	3.0	11.0	8
5778	Emigsville	do	Dolomitic marble	(2)	175	.15	4.6	8.7	14.3	7
4097	Glen Rock	do	Chlorite-epidotite schist	(2)	181	.37	6.8	5.9	12.3	6
1866	Hanover	do	Quartzite	(2)	165	.20	2.5	16.0	19.3	(2)
1948	do	do	Sandstone	(2)	143	4.62	12.8	3.1	(2)	(2)
7457	do	do	Siliceous marble	(2)	168	.49	4.3	9.3	15.8	7
7790	do	do	Siliceous dolomite	(2)	178	.16	4.0	10.0	17.7	12
5782	Hellam	do	Crystalline limestone	(2)	172	.18	3.1	12.9	16.7	7
1239	Marsh Run Township	do	Gabbro	(2)	184	.34	2.2	18.2	17.5	14
4106	Parke (near)	do	Hornblende-chlorite schist	(2)	193	.43	2.8	14.3	18.4	16
7050	Shock's Mills	do	Limestone	(2)	172	.15	5.7	7.0	9.0	4
2762	Spring Forge	do	do	(2)	178	.37	3.2	12.5	(2)	(2)
1695	Warrington Township	do	Indurated sandstone	(2)	175	.53	2.4	16.7	18.7	15
1696	do	do	Diabase	(2)	193	.07	2.5	16.0	18.5	16
2562	Washington Township	do	Hematite	(2)	256	4.36	18.3	2.2	17.6	11
2135	Wellsville	do	Epidosite	(2)	178	.67	2.8	14.3	18.9	22
5781	West York	do	Argillaceous limestone	(2)	175	.29	2.8	14.3	17.3	28
5779	Wrightsville	do	Dolomitic marble	(2)	175	.14	2.6	15.4	17.1	13
1366	York	do	Diabase	(2)	190	.10	2.0	20.0	(2)	(2)
1691	do	do	Micaceous sandstone	(2)	172	.33	3.6	11.1	13.9	8
2948	do	do	Limestone	(2)	172	.32	4.5	8.9	14.0	5
5783	do	do	Crystalline limestone	(2)	172	.19	3.1	12.9	14.8	9
5784	do	do	Carbonaceous limestone	(2)	168	.44	4.8	8.3	14.8	7
7330	do	do	Quartzite	(2)	159	.94	3.6	11.1	18.7	7
7428	do	do	Dolomitic marble	27,400	178	.19	3.4	11.8	15.3	9
7458	do	do	Diabase	(2)	187	.39	3.9	10.3	18.8	25
7616	do	do	Crystalline dolomite	(2)	175	.30	6.1	6.6	15.6	5
9067	do	do	Dolomitic marble	(2)	178	.16	8.2	4.9	14.2	5
9666	do	do	Quartzite	(2)	162	.68	4.1	9.8	19.3	9
4706	York (near)	do	Limestone	(2)	168	.19	5.8	6.9	8.8	6
5780	do	do	do	(2)	168	.48	4.3	9.3	14.3	3
3410	York Haven	do	Gabbro	(2)	190	.34	2.6	15.4	18.3	15
2100	(1)	do	do	(2)	187	.91	3.2	12.5	17.7	12
2828	(1)	(1)	Feldspathic sandstone	(2)	165	.38	2.7	14.8	17.7	14
4708	Blue Mountain	(1)	Serpentine	(2)	165	.19	4.7	8.5	15.0	11
9022	(1)	(1)	Dolomite	(2)	175	.60	(2)	(2)	15.5	7
7431	(1)	(1)	Carbonaceous limestone	(2)	168	.31	5.0	8.0	16.3	5
			RHODE ISLAND							
886	Bristol	Bristol	Chloritic quartzite	(2)	172	0.45	4.7	8.5	18.9	10
889	do	do	Gneissoid granite	(2)	168	.28	2.8	14.3	18.0	10
194	Warren	do	Field stone	(2)	(2)	(2)	3.8	10.5	(2)	(2)
281	do	do	do	(2)	(2)	(2)	3.4	11.8	(2)	(2)

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

RHODE ISLAND—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
890	Warren	Bristol	Chloritic sandstone	(2)	168	0.38	2.7	14.8	15.3	24
891	East Greenwich	Kent	Biotite gneiss	(2)	168	.15	2.6	15.4	18.8	20
190	Warwick	do	Field stone	(2)	(2)	(2)	3.7	10.7	(2)	(2)
1818	do	do	Micaceous schist	(2)	165	.74	3.8	10.5	17.5	6
1821	do	do	Micaceous quartzite	(2)	172	.59	3.9	10.3	18.7	4
24476	do	do	Granite	(2)	160	11.68	10.8	3.7	18.3	5
1817	Jamestown	Newport	Metamorphic sandstone	(2)	168	.59	4.8	8.3	18.3	16
302	Middletown	do	Quartzite	(2)	(2)	(2)	3.1	12.9	(2)	(2)
896	do	do	do	(2)	175	.27	2.8	14.3	19.2	(2)
189	Newport (near)	do	do	(2)	(2)	(2)	2.0	20.0	(2)	(2)
1019	Newport	do	Granitite	(2)	162	.59	3.0	13.3	18.7	15
1020	Portsmouth	do	Arkosic gneiss	(2)	181	.25	4.2	9.5	15.4	10
1822	do	do	Feldspathic sandstone	(2)	168	.59	2.4	16.7	16.7	15
23776	Berkley	Providence	Feldspathic quartzite	(2)	165	.34	3.4	11.8	18.6	14
23777	do	do	Micaceous quartzite	(2)	175	.17	2.0	20.0	18.3	23
23822	do	do	Aplitic granite	(2)	166	.00	2.1	19.0	19.0	20
20956	Central Falls	do	Altered conglomerate	20,080	171	.35	3.5	11.4	17.0	9
24793	do	do	Siliceous slate	(2)	174	.17	5.6	7.1	13.3	10
887	Cranston	do	Granitite	(2)	175	.19	3.4	11.8	19.1	10
894	do	do	Feldspathic quartzite	(2)	172	.06	3.2	12.5	17.6	12
5023	do	do	Sericite gneiss	(2)	165	.31	4.6	8.7	17.8	9
19418	do	do	Granite gneiss	(2)	167	.37	3.1	12.9	18.7	10
1017	Cumberland (Calumint mine)	do	Hornblende granite	(2)	175	.26	1.6	25.0	17.9	12
14	Cumberland (Iron Mountain)	do	Peridotite	(2)	(2)	(2)	4.3	9.3	(2)	(2)
1022	Cumberland (Iron Mine Hill)	do	Altered peridotite	(2)	221	.27	4.3	9.3	15.0	12
42	Diamond Hill	do	Quartzite	(2)	(2)	(2)	4.4	9.1	(2)	(2)
1018	do	do	Quartzite breccia	(2)	162	.69	2.9	13.8	(2)	(2)
5589	do	do	Quartzite	(2)	162	.47	4.4	9.1	19.3	16
26618	do	do	Brecciated quartz	(2)	162	.83	3.4	11.8	19.3	9
43	East Providence	do	Quartzite	(2)	(2)	(2)	4.2	9.5	(2)	(2)
48	do	do	do	(2)	(2)	(2)	3.0	13.3	(2)	(2)
892	do	do	Indurated sandstone	(2)	168	.31	3.0	13.3	19.1	7
1820	do	do	Chlorite gneiss	(2)	175	.46	4.6	8.7	15.7	8
10248	do	do	Feldspathic sandstone	(2)	168	.59	3.6	11.1	18.0	12
22756	do	do	do	(2)	169	.39	2.6	15.4	18.7	14
27313	do	do	Conglomerate	(2)	169	.37	5.4	11.8	18.7	13
191	Johnston	do	Diabase	(2)	(2)	(2)	1.9	21.1	(2)	(2)
893	do	do	Gneissoid granite	(2)	165	.25	2.2	18.2	18.5	12
897	do	do	Amphibolite	(2)	193	.17	2.8	14.2	19.0	9

1819	do	do	Hornblende schist	(2)	184	.75	3.0	13.3	18.3	10
6827	do	do	Amphibolite	(2)	187	.38	1.8	22.2	18.6	26
28030	do	do	Hornblende schist	(2)	195	.29	3.8	10.5	17.7	14
10171	Lincoln	do	Granite gneiss	(2)	170	.17	3.9	10.3	18.7	12
24862	do	do	Dolomitic limestone	(2)	148	6.77	8.8	4.5	11.3	5
888	North Providence	do	Micaceous quartzite	(2)	172	.40	2.6	15.4	16.5	21
24101	Oakland	do	Gneissoid granite	(2)	164	.57	4.5	8.9	18.7	10
36	Providence	do	Sandstone	(2)	(2)	(2)	4.0	10.0	(2)	(2)
659	do	do	Augite diorite	(2)	187	.18	1.9	21.1	(2)	(2)
23107	do	do	Serpentine	43,065	170	.22	1.9	21.1	18.7	39
895	Smithfield	do	Granite	(2)	162	.19	3.7	10.8	(2)	10
9242	do	do	Gneissoid granite	(2)	165	.45	3.0	13.3	18.3	6
24196	Woonsocket	do	Peridotite	(2)	232	.10	5.0	8.0	16.0	10
1213	South Kingston	Washington	Granitite	(2)	162	.43	5.2	7.7	15.8	4
1021	Westerly	do	Granite	(2)	165	.65	2.4	16.7	17.7	12
1259	do	do	do	(2)	165	.31	2.8	14.3	18.1	11
1260	do	do	do	(2)	165	.52	2.2	18.2	18.2	9
8867	do	do	do	11,740	165	(2)	4.0	10.0	(2)	6
8868	do	do	do	20,300	165	(2)	2.9	13.8	(2)	12
8869	do	do	do	20,750	165	(2)	3.5	11.4	(2)	11
10467	do	do	do	(2)	161	.37	3.9	10.3	18.7	9
11398	do	do	Biotite granite	31,450	162	.37	2.4	16.7	19.3	11
12445	do	do	Granite	18,260	162	.56	(2)	(2)	18.7	15
23607	do	do	Biotite granite	30,405	165	.52	3.1	12.9	18.7	9
28732	do	do	do	(2)	165	.61	2.9	13.8	18.0	13
28733	do	do	do	(2)	165	.41	3.0	13.3	18.0	13
28734	do	do	do	(2)	164	.49	5.6	7.1	18.0	5

SOUTH CAROLINA

783	Abbeville	Abbeville	Chert	(2)	162	1.19	22.1	1.8	(2)	(2)
3451	do	do	do	(2)	165	.35	9.1	4.4	(2)	(2)
6490	do	do	Muscovite granite	(2)	165	.57	4.5	8.9	17.2	9
6491	do	do	Altered muscovite granite	(2)	159	.22	18.2	2.2	0.0	3
6492	do	do	Granite gneiss	(2)	175	.64	13.2	3.0	14.1	6
6493	do	do	Gneissoid granite	(2)	165	.32	3.8	10.5	18.0	6
2545	Belton	Anderson	Ferruginous sandstone	(2)	200	5.09	10.3	3.9	(2)	(2)
8389	Williamston	do	Granite	12,990	165	.60	5.3	7.5	18.3	6
1758	Gaffney	Cherokee	Limestone	(2)	172	.11	5.7	7.0	8.7	8
23440	Gaffney (4 miles from)	do	Gneissoid quartzite	(2)	160	1.70	21.4	1.9	18.7	6
22768	Chesterfield	Chesterfield	Granite	24,190	165	.34	5.0	8.0	19.0	8
15453	Trenton	Edgefield	Biotite granite	(2)	164	.74	3.2	12.5	(2)	(2)
2386	Blairs	Fairfield	do	(2)	165	.28	3.2	12.5	18.9	9
5568	Rion	do	Granite	29,180	168	.18	2.6	15.4	18.3	14
5586	do	do	Biotite granite	25,790	(2)	(2)	(2)	(2)	18.5	11
10531	do	do	do	25,540	165	.59	4.4	9.1	18.3	8
22750	Rion	do	do	29,825	163	.54	3.6	11.1	17.7	12
24351	do	do	do	(2)	165	.44	3.4	11.8	18.3	7

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

SOUTH CAROLINA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
14755	Rion (near)	Fairfield	Biotite granite	20,100	164	0.69	3.5	11.4	18.0	12
11417	Winnsboro	do	do	22,970	(2)	(2)	(2)	(2)	18.0	7
3893	Greenville	Greenville	Granite	(2)	165	.22	5.0	8.0	18.2	9
10129	do	do	Hornblende gneiss	(2)	172	.68	8.0	5.0	17.0	6
10131	Greenville (17 miles from)	do	Granite	(2)	165	.82	4.4	9.1	18.7	8
20015	Travellers Rest	do	do	(2)	167	.91	9.1	4.4	17.7	6
20188	do	do	do	(2)	(2)	(2)	4.1	9.8	(2)	(2)
20321	do	do	do	(2)	164	.52	4.8	8.3	17.7	5
21762	do	do	do	(2)	175	.59	6.7	6.0	16.3	6
4725	(1)	do	Gneissoid granite	(2)	172	.33	5.1	7.8	(2)	(2)
3759	Lancaster	Lancaster	Altered rhyolite	(2)	168	.16	3.1	12.9	18.9	10
22737	(1)	do	do	(2)	167	.37	2.2	18.2	18.7	26
23667	Laurens (near)	Laurens	Biotite granite	(2)	163	.67	3.9	10.3	18.3	8
1449	Batesburg	Lexington	Gneissoid granite	(2)	162	.51	2.4	16.7	18.8	21
14457	Cayce	do	Biotite granite	33,090	163	.51	2.5	16.0	18.3	13
24429	do	do	Granite	29,680	165	.26	3.3	12.1	19.1	11
19072	Leesville	do	Granite gneiss	37,690	166	.35	3.1	12.9	18.7	13
14298	McCormick (4 miles east of)	McCormick	Altered andesite	(2)	171	2.82	10.6	3.8	16.7	8
14301	McCormick (near)	do	Quartz	(2)	163	.34	9.8	4.1	(2)	(2)
2024	(1)	Oconee	Marble	14,005	168	.81	5.5	7.3	7.1	5
3923	Beverley	Pickens	Granite gneiss	(2)	172	.28	5.5	7.3	17.7	6
4008	do	do	Granite	(2)	168	.47	3.5	11.4	17.8	13
10130	do	do	Biotite gneiss	(2)	166	.75	4.1	9.8	17.7	4
28304	Liberty	do	Gneissoid granite	(2)	166	.75	6.2	6.5	17.3	7
374	Columbia	Richland	Granite	(2)	165	.17	2.9	13.8	(2)	(2)
11647	Columbia (near)	do	do	21,500	165	.99	3.1	12.9	18.0	8
19682	Columbia (9 miles east of)	do	Quartz	(2)	165	.18	6.4	6.2	18.9	(2)
2563	(1)	do	Granite	(2)	165	.47	(2)	(2)	19.1	23
375	Pacolet	Spartanburg	do	(2)	166	.17	1.9	21.1	(2)	(2)
1757	do	do	do	(2)	165	.33	4.1	9.8	17.7	15
28716	do	do	do	(2)	159	.55	4.3	9.3	18.3	7
29369	Pacolet (near)	do	do	23,125	164	.93	3.8	10.5	18.0	9
1079	Spartanburg	do	Syenite	(2)	168	.40	2.4	16.7	18.4	10
1603	do	do	Granite	(2)	172	.48	2.1	19.0	18.2	10
2110	do	do	Biotite gneiss	(2)	175	.25	3.8	10.5	15.6	7
12380	do	do	Biotite granite	8,620	165	.57	6.3	5.9	18.5	6
15153	Lockhart	Union	Diorite	(2)	189	.64	2.4	16.7	19.0	10
1217	Union	do	Granitite	(2)	168	.27	5.6	7.1	17.2	9

24422	Clover (¾ miles west of)	York	Biotite granite	(2)	163	.62	8.2	4.9	18.0	7
12863	Rock Hill	do	Altered gabbro	(2)	188	.10	3.2	12.5	18.0	17
26182	(1)	(1)	Diorite	10,010	177	.47	(2)	(2)	16.7	5

SOUTH DAKOTA

19068	Bijou Hills	Brule	Opaline sandstone	(2)	144	1.76	(2)	(2)	18.0	10
17874	Burke	Gregory	Calcareous sandstone	(2)	140	3.92	7.4	5.4	17.7	9
17872	Gregory	do	Tuffaceous limestone	(2)	144	5.66	14.2	2.8	6.7	6
23079	do	do	Argillaceous limestone	(2)	138	7.00	18.1	2.2	13.7	5
22740	Deadwood	Lawrence	Limestone	(2)	167	.67	4.9	8.2	15.0	4
2106	Lead	do	Altered diorite	(2)	168	.28	2.2	18.2	17.3	15
2107	do	do	Granite porphyry	(2)	162	.73	2.9	13.8	17.5	10
2108	do	do	Altered rhyolite	(2)	147	4.56	3.8	10.5	15.8	16
3372	do	do	Limestone	(2)	168	.21	5.6	7.1	15.6	5
3373	do	do	Sandstone	(2)	162	.44	3.2	12.5	19.0	10
3374	do	do	Dolomite	(2)	172	1.01	5.2	7.7	16.3	9
3375	do	do	Weathered chert	(2)	150	4.08	3.2	12.5	(2)	(2)
29508	do	do	Amphibolite	(2)	208	.52	6.4	6.2	16.0	10
18101	Piedmont (2 miles west of)	Meade	Dolomitic limestone	(2)	159	3.05	7.1	5.6	9.3	5
23052	(1) (mouth of Boulder Canyon)	do	Limestone	(2)	169	.28	6.6	6.1	14.3	4
23053	(1)	do	Dolomite	(2)	165	1.76	6.1	6.6	10.0	5
23054	(1)	do	Limestone	(2)	168	.24	6.1	6.6	13.7	3
10108	Dell Rapids	Minnehaha	Quartzite	(2)	165	.41	2.8	14.3	19.3	17
18935	do	do	do	(2)	166	.07	2.5	16.0	18.7	20
449	Rowena	do	do	(2)	165	.15	2.8	14.3	(2)	(2)
10896	do	do	do	(2)	164	.28	2.7	14.8	19.3	17
30067	do	do	do	(2)	167	.13	2.0	20.0	19.3	23
10894	Sioux Falls	do	do	(2)	163	.27	1.4	28.6	19.3	17
10895	do	do	Olivine diabase	(2)	190	.37	2.7	14.8	18.7	18
13984	do	do	Quartzite	36,380	170	.30	2.3	17.4	18.7	17
22222	do	do	do	(2)	165	.23	1.8	22.2	18.7	22
13729	(1)	do	do	(2)	(2)	(2)	(2)	(2)	19.7	17
13730	(1)	do	do	(2)	(2)	(2)	(2)	(2)	19.7	30
26708	Dark Canyon	Pennington	Dolomite	(2)	167	1.38	5.6	7.1	16.7	10
29351	do	do	Micaceous quartzite	27,680	166	.40	2.8	14.3	18.7	13
5582	Rapid City	do	Marble	(2)	168	.14	4.0	10.0	11.4	4
5584	do	do	Dolomite	(2)	162	1.84	4.2	9.5	16.8	4
5672	do	do	Feldspathic quartzite	(2)	168	.21	2.4	16.7	19.0	25
26645	do	do	Limestone	(2)	169	.08	4.7	8.5	15.3	5
23160	Carter (north of)	Tripp	Opaline sandstone	(2)	148	1.10	6.6	6.1	18.7	10
16017	Colome (south of)	do	Sandstone	(2)	149	1.06	9.3	4.3	16.3	6
16018	Colome (6 miles south of)	do	do	(2)	148	1.52	8.6	4.7	(2)	(2)
16019	Colome (near)	do	Siliceous limestone	(2)	144	4.19	24.8	1.6	5.3	5
16465	do	do	Tuffaceous limestone	(2)	138	6.12	10.9	3.7	(2)	(2)

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

TENNESSEE

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
2104	Clinton	Anderson	Feldspathic limestone	(2)	165	0.84	2.7	14.8	16.5	11
2367	Camden	Benton	Chert	(2)	140	2.63	(2)	(2)	19.2	9
9992	Maryville	Blount	Argillaceous limestone	(2)	168	.40	3.8	10.5	16.7	6
9993	do	do	Limestone	(2)	168	.30	4.3	9.3	15.7	5
4333	Elizabethton	Carter	Argillaceous limestone	(2)	172	.25	3.3	12.1	17.7	18
9223	Watauga Point	do	Dolomite	(2)	178	.26	4.1	9.8	(2)	9
5597	(1)	do	Limestone	22,750	168	.34	4.4	9.1	16.9	9
1325	Cumberland Gap	Claiborne	do	(2)	172	.24	3.9	10.3	15.8	10
1326	do	do	do	(2)	168	.31	3.8	10.5	(2)	(2)
10326	Harrogate (near)	do	Dolomite	(2)	174	.92	3.2	12.5	16.0	14
10327	Harrogate	do	do	(2)	171	1.86	3.6	11.1	13.3	7
10292	New Tazewell	do	Siliceous limestone	(2)	171	1.84	4.2	9.5	13.3	8
10446	New Tazewell (near)	do	Dolomite	(2)	172	1.20	4.1	9.8	15.3	9
10581	Tazewell (near)	do	Siliceous dolomite	(2)	170	1.93	4.1	9.8	15.2	9
376	Nashville	Davidson	Limestone	(2)	168	.15	5.0	8.0	(2)	(2)
377	do	do	do	(2)	168	.19	5.2	7.7	(2)	(2)
378	do	do	do	(2)	167	1.80	5.8	6.9	(2)	(2)
379	do	do	do	(2)	153	3.08	15.1	2.6	(2)	(2)
6557	do	do	do	(2)	168	.90	3.5	11.4	10.4	6
9667	do	do	do	(2)	168	.39	4.5	8.9	15.5	8
9668	do	do	do	(2)	168	2.19	7.3	5.5	9.0	4
9669	do	do	do	(2)	172	.36	4.5	8.9	16.0	6
22706	do	do	do	(2)	161	3.07	5.7	7.0	12.1	4
23099	do	do	Argillaceous limestone	(2)	168	.87	(2)	(2)	15.3	8
1407	Perryville	Decatur	Limestone	(2)	159	.95	4.2	9.5	13.8	7
8109	Charlotte	Dickson	Crystalline limestone	(2)	165	(2)	5.6	7.1	14.0	5
8110	do	do	Argillaceous limestone	(2)	162	1.04	6.4	6.2	13.1	4
8111	do	do	Limestone	(2)	156	3.10	5.1	7.8	16.3	3
8112	do	do	Argillaceous limestone	(2)	159	.25	7.3	5.5	17.1	5
8113	do	do	do	(2)	153	6.50	8.5	4.7	18.0	4
10483	Jamestown	Fentress	Sandstone	(2)	145	3.97	10.8	3.7	15.0	4
448	Chattanooga	Hamilton	Dolomitic limestone	(2)	169	.30	2.8	14.3	(2)	(2)
503	do	do	Limestone	(2)	169	1.10	4.0	10.0	(2)	(2)
8865	do	do	do	(2)	172	.28	(2)	(2)	15.5	4
13064	do	do	do	(2)	169	.08	4.5	8.9	15.7	8
12703	Chattanooga (4 miles southwest of)	do	do	(2)	168	.11	3.9	10.3	16.0	10
12740	Chattanooga (near)	do	Argillaceous limestone	(2)	168	.20	4.2	9.5	16.0	9
8384	Paris (10 miles north of)	Henry	Sandstone	(2)	(2)	(2)	3.6	11.1	18.8	24
8385	Paris (3 miles west of)	do	Iron conglomerate	(2)	(2)	(2)	37.8	1.1	(2)	(2)

336	Graytown	Hickman	Ferruginous limestone	(2)	168	4.75	11.5	3.5	(2)	(2)
337	do	do	Siliceous limestone	(2)	175	2.54	6.8	5.9	(2)	(2)
338	do	do	Chert	(2)	156	1.72	4.4	9.1	(2)	(2)
359	do	do	Limestone	(2)	193	3.29	7.9	5.1	(2)	(2)
361	do	do	Siliceous limestone	(2)	175	2.29	7.8	5.1	(2)	(2)
15986	Erin	Houston	Siliceous sinter	(2)	90	21.32	43.1	.9	(2)	(2)
8386	Stewart	do	Limestone	(2)	156	2.60	(2)	(2)	13.0	4
21061	Jefferson City	Jefferson	Chert	(2)	149	3.62	7.9	5.1	18.7	4
21062	do	do	do	(2)	152	2.32	6.5	6.2	18.7	7
5502	Strawberry Plains	do	Limestone	21,725	172	.11	4.0	10.0	(2)	10
5503	do	do	Dolomite	38,070	178	.27	2.7	14.8	(2)	17
5504	do	do	Limestone	28,335	172	.42	4.5	8.9	(2)	8
11521	Asbury	Knox	Marble	16,030	169	.23	6.0	6.7	13.3	2
11522	Ebenezer	do	do	9,230	168	.11	(2)	(2)	13.6	4
11519	Knoxville	do	do	(2)	169	.13	7.0	5.7	13.0	3
11520	do	do	do	(2)	168	.12	5.5	7.3	13.6	5
9887	Mascot	do	Dolomite	(2)	178	.20	4.1	9.8	16.0	11
16275	Iron City	Lawrence	Argillaceous limestone	(2)	168	.47	5.0	8.0	15.0	8
11526	Amarco	Loudon	Marble	(2)	168	.25	6.1	6.6	12.6	3
1684	Lenoir City	do	Limestone	(2)	172	.30	4.5	8.9	9.3	11
11523	Meadow	do	Marble	(2)	168	.17	6.2	6.5	13.0	3
11524	do	do	do	29,000	168	.20	5.5	7.3	13.0	3
1205	Jackson	Madison	Ferruginous sandstone	(2)	178	2.82	(2)	(2)	4.0	3
24861	(1)	Marion	Sandstone	(2)	157	1.51	4.7	8.5	18.0	7
10315	Madisonville	Monroe	Ferruginous sandstone	(2)	178	.41	4.0	10.0	17.3	8
10316	do	do	Siliceous limestone	(2)	169	.46	6.3	6.3	16.7	9
10317	do	do	Limestone	(2)	167	.77	8.3	4.8	16.7	9
10318	do	do	do	(2)	171	.33	4.2	9.5	17.3	8
10323	do	do	Crystalline limestone	(2)	168	.33	6.0	6.7	13.3	5
10414	(1)	do	Siliceous dolomite	(2)	174	1.36	3.3	12.1	15.7	18
7553	Clarksville	Montgomery	Argillaceous limestone	(2)	168	1.12	4.4	9.1	15.6	6
7554	do	do	Limestone	(2)	165	.74	5.0	8.0	15.0	5
7555	do	do	do	(2)	165	.50	4.6	8.7	14.9	7
7901	do	do	do	(2)	165	.90	2.9	13.8	14.9	5
7902	do	do	do	(2)	168	.30	3.8	10.5	15.8	6
7903	do	do	Cherty limestone	(2)	172	.20	3.6	11.1	16.9	8
7904	do	do	Argillaceous limestone	(2)	168	.60	4.4	9.1	15.6	9
8151	do	do	Limestone	(2)	168	.43	8.3	4.8	16.8	6
17507	do	do	do	(2)	158	2.05	4.9	8.2	9.7	5
7884	(1)	do	Argillaceous limestone	(2)	168	.76	4.1	9.8	16.0	7
19913	Livingston (near)	Overton	Limestone	(2)	165	.64	5.9	6.8	12.9	5
9734	Byrdstown	Pickett	Argillaceous dolomite	(2)	168	2.65	4.3	9.3	13.2	12
9735	do	do	do	(2)	168	1.64	3.9	10.3	17.3	13
6826	Harriman	Roane	Siliceous dolomite	(2)	178	.37	2.9	13.8	15.4	13
9098	do	do	Dolomite	(2)	175	.85	5.5	7.3	15.2	9
9653	do	do	Argillaceous limestone	(2)	168	.32	4.5	8.9	15.3	7
4047	Oliver Springs	do	Rhyolite	(2)	162	.74	20.0	2.0	(2)	(2)
1240	Huntsville	Scott	Sandstone	(2)	153	2.21	8.8	4.5	(2)	(2)
5440	Bluff City	Sullivan	Limestone	(2)	168	.40	5.8	6.9	15.2	5
3429	Bristol	do	Dolomite	(2)	175	.82	(2)	(2)	18.4	23

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

TENNESSEE—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
3430	Bristol	Sullivan	Dolomitic limestone	(2)	175	0.46	(2)	(2)	17.7	10
3431	do	do	Dolomite	(2)	175	.97	(2)	(2)	17.6	9
3432	do	do	do	(2)	178	.60	(2)	(2)	16.3	8
7008	do	do	Siliceous dolomite	(2)	175	.20	2.6	15.4	16.8	15
8007	do	do	Feldspathic sandstone	(2)	159	1.63	(2)	(2)	18.7	5
11525	Luttrell	Union	Marble	(2)	170	.17	6.9	5.8	12.3	5
23135	McMinnville (15 miles from)	Warren	Limestone	(2)	170	.19	3.7	10.8	16.7	8
14840	Broylesville	Washington	do	(2)	170	.84	6.6	6.1	15.3	4
14464	Johnson City	do	Siliceous limestone	(2)	175	.29	2.5	16.0	17.3	16
14841	Washington College	do	Limestone	(2)	169	.49	5.7	7.0	15.3	5
7557	Franklin	Williamson	do	(2)	168	.05	4.6	8.7	15.8	5
6200	(1)	Wilson	do	(2)	168	.44	5.4	7.4	14.7	3

TEXAS

1199	San Antonio	Bexar	Limestone	(2)	153	4.89	(2)	(2)	0.0	4
1202	do	do	do	(2)	143	8.29	(2)	(2)	.0	3
1229	do	do	do	(2)	159	2.19	5.2	7.7	7.1	4
16633	Blanket	Brown	Argillaceous limestone	(2)	162	1.42	6.7	6.0	(2)	5
1500	Clay (near)	Burleson	Sandstone	(2)	140	3.48	4.2	9.5	16.7	14
26271	Burnet (near)	Burnet	Limestone	25,280	169	.19	5.4	7.4	16.7	4
26270	Marble Falls (near)	do	Siliceous limestone	(2)	164	.61	3.0	13.3	18.0	26
26269	Sudduth (near)	do	Dolomitic marble	(2)	168	.39	5.5	7.3	16.7	9
27507	Baird	Callahan	Limestone	(2)	162	1.23	4.4	9.1	14.7	8
25385	(1)	Camp	Ferruginous sandstone	(2)	146	7.28	27.6	1.4	(2)	(2)
25386	(1)	do	do	(2)	180	2.69	5.2	7.7	16.0	8
21209	Coleman (1 mile west of)	Coleman	Argillaceous limestone	(2)	168	1.15	4.0	10.0	15.3	8
7609	New Braunfels	Comal	Limestone	(2)	165	.12	4.8	8.3	13.2	6
18686	do	do	do	(2)	160	2.44	5.5	7.3	11.3	6
20092	do	do	do	(2)	161	1.21	5.5	7.3	12.0	6
29432	do	do	do	(2)	152	2.57	8.7	4.6	2.7	4
29528	do	do	do	(2)	(2)	(2)	8.5	4.7	(2)	(2)
21145	Cisco (near)	Eastland	Ferruginous sandstone	(2)	(2)	(2)	40.0	1.0	(2)	(2)
29457	Midlothian	Ellis	Argillaceous limestone	(2)	123	14.93	15.0	2.7	(2)	(2)
29458	do	do	do	(2)	120	14.96	20.2	2.0	(2)	(2)
29459	do	do	do	(2)	120	15.84	23.0	1.7	(2)	(2)

29455	Waxahachie	do	do	(2)	131	11.21	16.6	2.4	(2)	(2)	
29456	do	do	do	(2)	121	15.06	20.0	2.0	(2)	(2)	
29460	Waxahachie (2 miles west of)	do	do	(2)	115	18.36	23.6	1.7	(2)	(2)	
29679	do	do	do	(2)	123	14.68	11.5	3.5	.0		3
7297	Dublin	Erath	Fossiliferous limestone	(2)	168	.64	6.7	6.0	14.6		4
2084	El Paso	El Paso	Syenite	(2)	159	1.58	14.4	2.8	18.2		11
2185	do	do	Syenite porphyry	(2)	159	1.68	2.5	16.0	18.2		9
3727	do	do	Syenite	(2)	159	1.40	4.1	9.8	18.1		13
29656	Oakwood (near)	Freestone	Calcareous sandstone	(2)	164	.75	4.7	8.5	16.7		8
1479	Denison	Grayson	Limestone	(2)	159	2.77	5.2	7.7	12.8		8
1480	do	do	do	(2)	162	1.94	4.4	9.1	15.4		9
5642	do	do	Argillaceous limestone	(2)	162	2.12	5.7	7.0	13.7		8
5851	do	do	do	(2)	159	3.65	7.1	5.6	14.8		5
5852	do	do	do	(2)	159	2.87	6.6	6.1	14.6		6
3412	Denison (near)	do	Ferruginous limestone	(2)	153	5.65	(2)	(2)	12.3		5
3413	do	do	do	(2)	159	2.71	(2)	(2)	15.6		8
3414	do	do	Limestone	(2)	162	2.20	(2)	(2)	15.9		11
5709	Sherman	do	Altered granite	(2)	162	.61	4.8	8.3	19.3		8
5938	do	do	Argillaceous limestone	(2)	134	11.96	7.5	5.3	.0		3
10044	(1)	do	Clay limestone	(2)	134	12.82	(2)	(2)	.0		2
12491	Gladewater	Gregg	Ferruginous sandstone	(2)	143	9.06	16.6	2.4	3.8		4
12488	Longview	do	Ferruginous conglomerate	(2)	153	9.74	25.8	1.6	9.0		3
12489	do	do	Ferruginous sandstone	(2)	178	4.89	13.7	2.9	13.5		6
12490	do	do	do	(2)	150	7.31	13.9	2.9	11.3		3
1958	Marshall	Harrison	do	(2)	153	.52	22.9	1.7	2.7		3
6625	(1)	do	Iron conglomerate	(2)	(2)	(2)	26.0	1.5	(2)	(2)	
16590	(1)	do	Ferruginous sandstone	(2)	165	4.72	21.3	1.9	(2)		11
2685	Hillsboro	Hill	Limestone	(2)	143	8.60	9.5	4.2	(2)	(2)	
26673	(1)	do	Argillaceous limestone	(2)	154	4.07	8.6	4.7	10.7		4
3869	Jacksboro	Jack	Limestone	(2)	165	1.94	5.0	8.0	(2)	(2)	
7331	do	do	do	(2)	165	1.63	5.2	7.7	13.5		4
7332	do	do	do	(2)	165	1.27	3.8	10.5	14.1		6
26956	do	do	Argillaceous limestone	(2)	166	.90	6.6	6.1	14.7		6
5395	Stewarton	do	Limestone	(2)	168	.82	4.9	8.2	14.8		9
24512	Lueders	Jones	Argillaceous limestone	14,930	162	3.36	6.8	5.9	12.0		5
24513	do	do	Limestone	8,890	145	5.88	8.4	4.8	4.3		4
24514	do	do	Argillaceous limestone	10,110	145	5.04	8.4	4.8	2.3		3
24515	do	do	do	6,510	149	6.10	10.4	3.8	7.3		3
24516	do	do	do	6,695	140	7.34	12.2	3.3	.0		3
24517	do	do	do	8,915	145	6.98	8.6	4.7	2.3		4
27538	do	do	Limestone	(2)	144	5.93	11.4	3.5	4.0		4
27539	do	do	Argillaceous limestone	(2)	146	4.90	13.0	3.1	6.7		3
27540	do	do	do	(2)	151	4.86	14.2	2.8	13.3		6
7015	Chief (near)	Kaufman	Siliceous limestone	(2)	162	1.63	9.0	4.4	14.5		7
6314	Terrell	do	do	(2)	153	4.11	12.0	3.3	(2)	(2)	
7016	do	do	do	(2)	156	2.92	11.7	3.4	5.0		4
3147	Paris	Lamar	Sandstone	(2)	143	7.25	11.3	3.5	.0		4
5532	(1)	do	Chert conglomerate	(2)	159	.49	4.9	8.2	19.4		10
16828	Groesbeck	Limestone	Siliceous limestone	(2)	158	1.32	6.0	6.7	14.0		8
8591	Springfield	do	Limestone	(2)	162	1.45	4.5	8.9	15.0		7

[1] Exact location not known.

[2] Test not made

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

TEXAS—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
7224	Tehuacana	Limestone	Argillaceous limestone	(2)	159	2.28	7.6	5.3	7.8	4
8685	do	do	Fossiliferous limestone	(2)	156	.27	8.2	4.9	4.0	4
22223	Llano	Llano	Granite porphyry	(2)	164	.24	2.4	16.7	18.7	20
26268	do	do	Granite	26,135	161	.70	3.3	12.1	18.7	10
17497	Llano (3 miles east of)	do	Rhyolite	(2)	164	.38	2.3	17.4	19.3	21
17442	Madisonville	Madison	Sandstone	(2)	135	6.62	5.8	6.9	13.0	9
29206	Jefferson	Marion	Ferruginous sandstone	(2)	140	9.96	25.0	1.6	9.3	4
29446	do	do	do	(2)	166	3.17	10.4	3.8	12.0	5
28785	Loraine (3 miles east of)	Mitchell	Argillaceous limestone	(2)	161	2.36	7.2	5.6	12.0	7
29324	do	do	do	(2)	158	3.38	10.3	3.9	10.0	5
29352	do	do	Limestone	(2)	161	2.04	6.2	6.5	(2)	(2)
29472	do	do	Argillaceous limestone	(2)	160	2.39	8.2	4.9	13.3	7
11347	Bowie	Montague	Quartz conglomerate	(2)	148	4.34	21.6	1.9	(2)	(2)
7070	Corsicana	Navarro	Limestone	(2)	168	.60	5.5	7.3	14.1	6
5955	Richland	do	Crystalline limestone	(2)	165	1.33	6.2	6.5	15.6	9
7209	do	do	Limestone	(2)	168	1.02	3.8	10.5	13.3	6
4327	Maryneal	Nolan	do	(2)	159	2.56	6.2	6.5	13.7	5
5432	do	do	do	(2)	159	1.67	6.2	6.5	13 3	4
4131	Mineral Wells	Palo Pinto	do	(2)	165	1.22	5.5	7.3	14.5	7
19458	do	do	Argillaceous limestone	(2)	162	2.39	4.3	9.3	15.3	6
24831	do	do	Crystalline limestone	(2)	161	1.60	5.6	7.1	13.3	5
24832	do	do	Argillaceous limestone	(2)	166	.86	5.0	8.0	16.7	8
24833	do	do	do	(2)	167	.67	5.6	7.1	13.7	7
6579	Strawn	do	Limestone	(2)	168	.37	4.2	9.5	13.5	6
19397	Eldorado	Schleicher	Argillaceous limestone	(2)	147	5.11	12.4	3.2	13.3	5
19398	do	do	Limestone	(2)	150	5.62	7.9	5.1	0.0	5
6396	Lindale (5 miles east of)	Smith	Sandstone	(2)	162	.33	4.2	9.5	18.8	6
6398	do	do	Calcareous sandstone	(2)	165	.77	4.3	9.3	15.3	6
6397	Noonday (1 mile south of)	do	Ferruginous conglomerate	(2)	172	3.31	26.8	1.5	(2)	(2)
17074	Starrville	do	Ferruginous sandstone	(2)	177	.41	5.7	7.0	17.3	8 [3] 13
17080	Tyler (22 miles east of)	do	do	(2)	166	8.47	27.3	1.5	12.0	4
26950	Benbrook	Tarrant	Argillaceous limestone	(2)	146	7.77	8.0	5.0	10.0	3
26747	Benbrook (near)	do	do	(2)	146	7.76	7.8	5.1	5.7	3
26357	(1)	do	Limestone	(2)	165	1.25	4.4	9.1	15.3	6
5455	Abilene	Taylor	do	(2)	165	1.50	4.0	10.0	14.2	7
29399	Elmdale	do	Argillaceous limestone	(2)	158	2.62	5.6	6.1	13.3	5
17020	San Angelo	Tom Green	Limestone conglomerate	(2)	165	1.21	5.6	7.1	17.7	5
17943	do	do	Dolomite	(2)	155	4.65	4.8	8.3	13.0	9

7763	Austin (10 miles southeast of)	Travis	Nephelite basalt	(2)	199	.21	1.7	23.5	18.7	24
13106	do	do	do	(2)	195	.06	2.8	14.3	18.7	29
8234	(1)	do	Limestone	(2)	(2)	(2)	(2)	(2)	14.7	5
8235	(1)	do	do	(2)	(2)	(2)	(2)	(2)	15.7	5
8236	(1)	do	Siliceous dolomite	(2)	(2)	(2)	(2)	(2)	16.2	14
8237	(1)	do	Limestone	(2)	(2)	(2)	(2)	(2)	15.3	5
8238	(1)	do	do	(2)	(2)	(2)	(2)	(2)	16.0	4
8239	(1)	do	Rhyolite	(2)	(2)	(2)	(2)	(2)	18.7	22
16581	(1)	do	Limestone	(2)	147	6.18	7.4	5.4	1.0	4
24543	Trinity (3 miles east of)	Trinity	Opaline sandstone	(2)	136	6.11	6.4	6.2	13.3	10
7129	Knippa	Uvalde	Nephelite basalt	(2)	193	.39	1.8	22.2	17.5	15
1499	Gay Hill	Washington	Metamorphosed sandstone	(2)	143	2.67	5.0	8.0	16.7	12
2706	Round Rock	Williamson	Limestone	(2)	156	3.20	10.7	3.7	0.0	4
2707	do	do	do	(2)	159	2.64	7.1	5.6	13.2	4
2708	do	do	do	(2)	153	5.06	23.8	1.7	5.3	3
4412	Bridgeport	Wise	do	(2)	168	.34	5.5	7.3	14.3	5
6600	do	do	do	(2)	165	1.03	6.8	5.9	12.2	6
6667	do	do	do	(2)	168	.60	6.4	6.2	13.8	5
6683	Chico	do	do	(2)	168	.26	(2)	(2)	15.6	6
6684	do	do	do	(2)	168	.36	6.1	6.6	14.6	6
7242	do	do	do	(2)	168	.37	4.3	9.3	14.1	4
11395	do	do	do	(2)	169	.30	5.7	7.0	14.3	4
29545	do	do	do	21,075	169	.29	4.4	9.1	14.7	5
17302	Decatur	do	Fossiliferous limestone	(2)	156	3.21	17.8	2.2	(2)	(2)
21339	(1)	(1)	Calcareous slate	35,175	163	.83	4.0	10.0	18.3	22

UTAH

14257	Price	Carbon	Argillaceous limestone	(2)	156	3.28	5.8	6.9	15.3	7
14258	do	do	Calcareous sandstone	(2)	161	2.15	6.3	6.3	14.7	8
14252	Castle Dale	Emery	Limestone conglomerate	(2)	154	3.95	17.3	2.3	(2)	(2)
14253	do	do	Argillaceous limestone	(2)	168	.48	4.7	8.5	16.0	6
14254	Castle Dale (4½ miles east of)	do	Calcareous sandstone	(2)	161	2.08	3.3	12.1	15.3	19
14249	Emery (4½ miles northeast of)	do	Limestone	(2)	162	2.16	7.1	5.6	16.0	12
14250	Ferron	Emery	do	(2)	168	.47	4.9	8.2	16.7	6
14251	Ferron (7½ miles north of)	do	Argillaceous limestone	(2)	166	.91	4.5	8.9	15.3	7
14255	(1)	do	Calcareous sandstone	(2)	166	1.79	7.6	5.3	14.7	7
14867	(1)	do	Argillaceous limestone	(2)	144	5.93	7.3	5.5	12.0	3
14868	(1)	do	Limestone	(2)	166	.87	4.7	8.5	16.0	7
15261	(1)	do	Argillaceous limestone	(1)	139	4.67	8.4	4.8	10.7	5
8191	Morgan (9 miles southeast of)	Morgan	Limestone conglomerate	(2)	165	.41	7.2	5.6	(2)	(2)
1995	Salt Lake City	Salt Lake	Limestone	(2)	168	.77	2.9	13.8	16.8	12
1997	do	do	do	(2)	159	2.31	3.1	12.9	17.9	20
3371	(1)	do	do	(2)	165	.90	4.1	9.8	16.9	11
3331	Provo	Utah	Granite and quartzite	(2)	165	.12	6.2	6.5	18.7	7
3332	do	do	Argillaceous sandstone	(2)	168	1.15	5.8	6.9	17.4	6
3333	do	do	Chert	(2)	162	1.08	29.2	1.4	(2)	(2)
3334	do	do	Sericite schist	(2)	175	.16	6.2	6.5	16.2	7

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

UTAH—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
3337	Provo	Utah	Siliceous limestone	(2)	162	2.36	3.6	11.1	18.2	20
3338	do	do	Limestone	(2)	165	.45	3.0	13.3	(2)	(2)
3847	do	do	Bituminous sandstone	(2)	119	.93	3.8	10.5	13.0	12
4744	do	do	do	(2)	140	1.34	5.2	7.7	5.6	6
3339	(1)	do	Sandstone	(2)	168	.10	2.3	17.4	19.0	17

VERMONT

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
1946	Middlebury	Addison	Limestone	(2)	172	.62	3.8	10.5	15.4	6
2884	Bennington	Bennington	Dolomite	(2)	178	.35	4.2	9.5	15.0	8
2885	do	do	do	(2)	178	.33	3.6	11.1	16.6	6
2886	do	do	do	(2)	178	.34	4.1	9.8	14.5	7
2887	do	do	do	(2)	175	.98	4.1	9.8	16.9	8
2889	do	do	Limestone	(2)	168	.41	5.0	8.0	(2)	(2)
7109	do	do	Quartzite	(2)	165	.29	6.8	5.9	19.2	4
2888	Bennington (near)	do	do	(2)	165	.35	2.3	17.4	(2)	(2)
11497	Dorset	do	Marble	7,110	168	.46	(2)	(2)	4.0	3
1220	North Pownal	do	do	(2)	168	.36	5.8	6.9	8.9	6
1256	do	do	Limestone	(2)	172	.30	3.2	12.5	12.6	5
6685	Hardwick	Caledonia	Granite	(2)	165	.39	4.2	9.5	17.5	6
12190	do	do	Biotite granite	(2)	165	1.11	(2)	(2)	17.0	8
3329	Burlington	Chittenden	Red dolomitic marble	(2)	175	.25	3.2	12.5	17.3	23
3330	do	do	Dolomitic marble	(2)	175	.39	2.5	16.0	16.6	18
8369	do	do	Dolomite	(2)	175	.42	4.4	9.1	17.2	15
8370	do	do	Argillaceous dolomite	(2)	178	.42	3.4	11.8	18.0	11
10848	do	do	Siliceous dolomite	(2)	163	.26	3.7	10.8	16.7	13
11503	do	do	Siliceous marble	40,700	177	.78	(2)	(2)	17.6	24
1678	Saint Albans	Franklin	Feldspathic sandstone	(2)	168	.31	2.8	14.3	19.5	17
1680	do	do	Dolomite	(2)	178	.42	4.2	9.5	16.3	9
1681	do	do	Feldspathic sandstone	(2)	165	.26	2.3	17.4	19.3	12
1726	Swanton	do	Limestone	(2)	172	.20	5.7	7.0	(2)	(2)
11489	do	do	Marble	12,720	177	.17	(2)	(2)	16.7	16
1679	Isle La Motte	Grand Isle	Limestone	(2)	168	.69	4.0	10.0	17.3	9
11490	do	do	Black marble	18,755	171	.26	4.6	8.7	14.3	9
2372	Barton	Orleans	Biotite-hornblende schist	(2)	181	.09	2.8	14.3	18.5	18
2373	do	do	Biotite granite	(2)	165	.28	8.1	4.9	17.7	5

11191	Derby	do	Siliceous limestone	(2)	171	.46	3.0	13.3	17.3	9
11494	Brandon	Rutland	Marble	9,520	168	.31	7.2	5.6	11.0	2
11496	Danby	do	do	7,380	168	.40	10.6	3.8	6.7	3
5543	East Wallingford	do	Altered diabase	16,800	184	.96	2.6	15.4	17.2	15
11498	Florence	do	Marble	8,770	168	.52	6.4	6.2	8.7	3
11500	do	do	do	9,010	168	.28	7.8	5.1	9.0	3
11491	Pittsford	do	do	11,045	170	.32	5.9	6.8	11.0	3
11502	Proctor	do	do	8,730	168	.41	7.3	5.5	7.0	3
5950	Rutland	do	Siliceous dolomite	(2)	175	.28	3.0	13.3	18.3	10
11495	do	do	Marble	7,105	167	.41	9.3	4.3	7.7	2
726	Wallingford	do	Amphibolite	(2)	193	.25	4.7	8.5	(2)	(2)
11493	West Rutland	do	Marble	6,945	168	.56	16.9	2.4	.0	2
11501	do	do	do	12,300	168	.36	4.8	8.3	11.7	4
6955	(1)	do	Quartzite	(2)	165	.15	2.3	17.4	19.2	12
1646	Barre	Washington	Granite	(2)	165	.65	3.1	12.9	18.7	8
3192	do	do	Biotite granite	(2)	165	.29	4.9	8.2	18.8	9
8853	do	do	Granite	19,565	165	.44	3.0	13.3	(2)	7
9673	do	do	Biotite granite	(2)	165	.37	2.8	14.3	19.0	9
12209	do	do	do	(2)	165	.47	(2)	(2)	18.0	11
11488	Roxbury	do	Serpentine marble	16,050	171	.22	(2)	(2)	18.0	6
6677	Bellows Falls	Windham	Biotite schist	(2)	178	.19	2.9	13.8	14.4	16
12200	Bethel	Windsor	Granite	(2)	164	.52	(2)	(2)	18.0	11
4092	Hartford	do	Altered diabase	(2)	181	.41	2.8	14.3	16.9	10
4123	Woodstock	do	Hornblende schist	(2)	187	.06	4.3	9.3	17.2	7

VIRGINIA

364	Charlottesville	Albemarle	Amphibolite	(2)	184	0.34	4.1	9.8	(2)	(2)
489	do	do	Limestone	(2)	172	.22	5.7	7.0	(2)	(2)
490	do	do	Diorite	(2)	196	.84	3.4	11.8	(2)	(2)
491	do	do	Chlorite schist	(2)	184	.30	7.1	5.6	(2)	(2)
494	do	do	Altered diabase	(2)	184	.56	2.3	17.4	(2)	(2)
496	do	do	Hornblende schist	(2)	184	.52	1.9	21.1	(2)	(2)
497	do	do	do	(2)	184	1.08	4.1	9.8	(2)	(2)
548	do	do	Amphibolite	(2)	187	1.62	2.1	19.0	(2)	(2)
549	do	do	do	(2)	190	.42	1.5	26.7	(2)	(2)
550	do	do	do	(2)	190	.23	2.2	18.2	(2)	(2)
551	do	do	do	(2)	187	.51	1.7	23.5	(2)	(2)
552	do	do	Hornblende schist	(2)	180	.86	2.5	16.0	(2)	(2)
7185	do	do	Altered biotite granite	(2)	172	.47	5.3	7.5	17.4	5
7186	do	do	Muscovite schist	(2)	172	.27	4.7	8.5	16.8	7
8686	do	do	Syenite	(2)	168	.19	4.4	9.1	17.3	10
8709	do	do	Altered diabase	(2)	184	.28	2.9	13.8	17.0	24
10253	do	do	Granite gneiss	(2)	171	.75	5.4	7.4	17.3	5
499	Charlottesville (near)	do	Quartzite	(2)	162	.44	3.6	11.1	(2)	(2)
2580	do	do	Feldspathic sandstone	(2)	162	.28	3.4	11.8	19.3	8
2901	do	do	Gneiss	(2)	168	.09	3.7	10.8	18.3	11
3709	do	do	Biotite granite	(2)	168	.45	7.4	5.4	18.3	8
3710	do	do	Quartz	(2)	165	.04	6.7	6.0	(2)	(2)

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
3848	Charlottesville (near)	Albemarle	Ferruginous sandstone	(2)	184	0.96	2.5	16.0	17.6	25
8646	do	do	Altered andesite	(2)	187	.45	2.9	13.8	(2)	9
15887	do	do	Amphibolite	(2)	182	1.47	6.8	5.9	15.0	7
2279	Crozet	do	Biotite granite	(2)	175	.33	4.1	9.8	18.3	7
16454	do	do	Gneiss	(2)	169	.77	5.8	6.9	(2)	12
1934	Esmont	do	Slate	[3] 15,840 [3] 22,790	178	.41	(2)	(2)	(2)	6
1935	do	do	do	[3] 19,150 [3] 29,500	181	.18	(2)	(2)	(2)	18
2277	Greenwood	do	Altered trachyte	(2)	187	.14	3.5	11.4	18.0	23
19332	Hatton	do	Altered diabase	(2)	187	.19	4.4	9.1	18.0	12
2278	Hillsboro (near)	do	Biotite granite	(2)	168	.48	5.2	7.7	18.6	7
13712	Ivy	do	Biotite gneiss	(2)	176	.86	4.6	8.7	18.0	8
20582	do	do	do	(2)	178	4.6	4.7	8.5	17.0	8
14131	Mechum River (near)	do	do	(2)	177	.74	5.4	7.4	17.0	6
6945	Miller School	do	Gneissoid granite	(2)	168	.75	(2)	(2)	17.8	7
6946	do	do	do	(2)	175	.19	(2)	(2)	18.3	5
6948	Miller School (4½ miles from)	do	Biotite granite	(2)	175	.19	(2)	(2)	18.8	14
19161	Scottsville	do	Sericite schist	(2)	168	.77	17.5	2.3	(2)	(2)
500	Shadwell	do	Chlorite schist	(2)	187	.32	3.5	11.4	(2)	(2)
2581	Shadwell (near)	do	Chlorite-epidote schist	(2)	184	.34	3.3	12.1	18.3	12
2698	do	do	Hornblende-epidote schist	(2)	187	.83	3.1	12.9	(2)	(2)
498	University	do	Mica schist	(2)	168	.27	3.4	11.8	(2)	(2)
8647	do	do	Diorite	(2)	190	.85	2.2	18.2	18.0	11
12853	do	do	Mica schist	(2)	166	.35	4.1	9.8	18.0	6
2861	University (near)	do	Sericite gneiss	(2)	165	.26	5.6	7.1	17.6	7
3924	do	do	Porphyritic granite	(2)	175	1.11	5.0	8.0	17.8	7
2699	Woods Crossing	do	Altered granite	(2)	162	.37	7.4	5.4	17.9	7
20581	do	do	Biotite gneiss	(2)	178	.42	5.6	7.1	18.3	6
20197	Yancey Mills (near)	do	Granite gneiss	(2)	162	.61	3.5	11.4	18.3	11
612	(1)	do	Chlorite schist	(2)	187	.15	4.0	10.0	(2)	(2)
613	(1)	do	Banded gneiss	(2)	165	.19	4.1	9.8	(2)	(2)
2038	(1)	do	Chlorite schist	(2)	190	.27	4.9	8.2	14.7	11
2582	(1)	do	Chlorite-epidote schist	(2)	184	.31	3.2	12.5	17.8	[3] 12 [3] 35
2616	(1)	do	Amphibolite	(2)	190	.34	3.3	12.1	16.3	12
2617	(1)	do	do	(2)	184	.47	3.5	11.4	(2)	(2)
7459	(1)	do	Granite	(2)	165	.30	4.8	8.3	19.2	11
9926	(1)	do	Biotite gneiss	(2)	181	.57	5.1	7.8	18.7	7

9927	(1)	do	Hornblende gneiss	(2)	193	.98	3.5	11.4	16.3	9
9928	(1)	do	Biotite gneiss	(2)	175	.62	5.3	7.5	17.6	7
11376	(1)	do	Sericite-epidote schist	(2)	165	.69	5.0	8.0	18.3	7
11377	(1)	do	Biotite gneiss	(2)	173	1.21	5.4	7.4	18.7	3
13298	(1)	do	do	(2)	176	.77	6.2	6.5	16.7	7
13299	(1)	do	Amphibolite	(2)	194	.28	3.0	13.3	17.4	14
13946	Barber (near)	Alleghany	Quartzite	(2)	163	.63	3.4	11.8	18.5	14
13947	do	do	Limestone	(2)	170	.15	5.0	8.0	15.5	4
9483	Clifton Forge	do	Feldspathic sandstone	(2)	168	1.04	(2)	(2)	15.8	20
10172	do	do	Siliceous limestone	(2)	166	.48	2.5	16.0	17.6	10
5953	Covington (near)	do	Crystalline limestone	(2)	165	.64	4.2	9.5	14.1	6
4860	Amherst	Amherst	Biotite gneiss	(2)	172	.33	5.3	7.5	14.6	8
4861	do	do	Mica schist	(2)	168	.21	8.2	4.9	18.3	10
4862	do	do	Hornblende-biotite schist	(2)	187	.25	6.2	6.5	16.0	7
4863	do	do	Biotite-gneiss	(2)	175	.25	5.3	7.5	17.6	11
4937	do	do	do	(2)	168	.44	6.6	6.1	16.8	12
1899	Amherst (1 mile south of)	do	Quartzite	(2)	165	.05	4.3	9.3	(2)	(2)
1972	Amherst (near)	do	Epidosite	(2)	190	.61	7.4	5.4	19.3	23
1973	do	do	Biotite schist	(2)	172	.48	4.7	8.5	16.5	9
6636	do	do	Granite gneiss	(2)	175	.73	8.7	4.6	9.2	3
7051	Clifford	do	Gneissoid granite	(2)	168	.29	5.3	7.5	17.7	4
3381	James	do	Hornblende gneiss	(2)	187	.59	16.4	2.4	12.3	5
3521	do	do	Biotite gneiss	(2)	172	.28	9.2	4.3	17.0	6
2221	Lynchburg (near)	do	Hornblende schist	(2)	190	.33	5.5	7.3	16.2	8
2223	do	do	Amphibolite	(2)	187	1.04	10.3	3.9	13.5	7
14870	do	do	do	(2)	188	.81	5.3	7.5	16.7	7
1976	McIvor	do	Hornblende schist	(2)	190	.44	6.3	6.3	15.7	10
7891	Madison Heights	do	Altered biotite granite	(2)	175	.30	4.7	8.5	18.0	8
4102	Monroe	do	Hornblende schist	(2)	193	.26	3.1	12.9	16.3	10
4203	do	do	Biotite gneiss	(2)	168	.55	7.2	5.6	18.2	5
4204	do	do	do	(2)	172	.60	7.4	5.4	17.8	5
4389	do	do	Gneiss	(2)	190	.63	5.3	7.5	15.7	7
4419	do	do	Hornblende schist	(2)	193	.23	5.9	6.8	14.2	9
1978	Monroe (near)	do	Biotite gneiss	(2)	172	.68	(2)	(2)	16.7	7
1901	Sweet Briar	do	Hornblende schist	(2)	187	.23	3.3	12.1	14.0	10
1900	Sweet Briar (near)	do	Micaceous hornblende gneiss	(2)	187	.15	5.7	7.0	(2)	5
1977	(1)	do	Epidosite	(2)	206	1.10	(2)	(2)	10.7	10
1982	(1)	do	Diorite gneiss	(2)	184	1.19	5.7	7.0	9.0	6
1984	(1)	do	Hornblende schist	(2)	193	.37	2.7	14.8	17.0	10
2208	(1)	do	Mica schist	(2)	165	.82	4.4	9.1	14.9	7
2679	(1)	do	Hornblende schist	(2)	193	.30	4.2	9.5	17.7	9
2931	(1)	do	do	(2)	184	.88	12.8	3.1	16.2	6
3019	(1)	do	Altered diabase	(2)	190	.21	1.8	22.2	18.6	24
3098	(1)	do	Hornblende schist	(2)	193	.21	3.0	13.3	17.9	8
6823	(1)	do	Biotite gneiss	(2)	181	.69	7.9	5.1	13.7	5
6824	(1)	do	Altered diorite	(2)	190	.88	2.4	16.7	17.9	8
2057	Appomattox	Appomattox	Sandstone	(2)	162	1.07	(2)	(2)	16.5	9
1310	Chain Bridge	Arlington	Mica schist	(2)	175	.30	4.8	8.3	17.1	6
1657	Fort Myer	do	Granite gneiss	(2)	172	.35	4.7	8.5	(2)	(2)
5952	Rosslyn	do	Altered granite	(2)	175	.26	2.9	13.8	17.8	11
412	(1)	do	Mica schist	(2)	175	.37	4.3	9.3	(2)	(2)

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
1320	(1)	Arlington	Mica schist	(2)	175	0.24	4.2	9.5	(2)	(2)
1440	(1)	do	Quartz	(2)	165	.12	3.7	10.8	(2)	(2)
1441	(1)	do	Granite	(2)	172	.27	2.6	15.4	18.3	30
23087	(1)	do	Mica gneiss	(2)	174	.34	2.8	14.3	18.0	6
5383	Brookewood	Augusta	Dolomite	(2)	175	.66	3.1	12.9	16.5	16
5384	do	do	Limestone	(2)	168	.67	(2)	(2)	15.4	5
2680	Craigsville	do	do	(2)	168	.32	3.8	10.5	17.7	9
2681	do	do	do	(2)	168	.27	4.6	8.7	15.7	7
20192	do	do	Siliceous limestone	(2)	172	.22	4.5	8.9	14.7	8
21137	do	do	Limestone	(2)	169	.07	4.2	9.5	14.7	7
2897	Fordwick (near)	do	Chert	(2)	165	.43	3.9	10.3	19.5	7
2898	do	do	Dolomite	(2)	172	.68	4.7	8.5	15.5	11
2899	do	do	Limestone	(2)	172	.41	(2)	(2)	16.0	7
23038	Greenville	do	Siliceous limestone	(2)	170	.14	3.5	11.4	16.7	16
23075	do	do	Limestone	(2)	170	.17	5.3	7.5	14.7	5
12915	Jennings Gap (near)	do	Siliceous limestone	(2)	174	.31	3.5	11.4	16.3	15
12916	do	do	Feldspathic sandstone	(2)	163	1.25	3.5	11.4	16.0	11
12917	do	do	do	(2)	178	.45	3.1	12.9	16.0	24
12918	do	do	Sandstone	(2)	168	.34	3.1	12.9	18.0	6
15187	do	do	Limestone	(2)	169	.51	6.3	6.3	15.7	4
15188	do	do	do	(2)	168	.52	5.0	8.0	15.7	9
14881	Lone Fountain	do	do	(2)	169	.22	5.8	6.9	16.0	4
16776	Lone Fountain (1 mile west of)	do	Argillaceous dolomite	(2)	174	.34	2.8	14.3	16.7	19
16641	Mint Spring (near)	do	Limestone	(2)	172	.48	5.5	7.3	15.3	10
3725	Staunton	do	Slate	(2)	168	.65	12.4	3.2	6.3	4
4738	do	do	Dolomite	(2)	178	.14	3.2	12.5	13.2	11
5620	do	do	Limestone	(2)	168	.08	5.1	7.8	15.3	6
6580	do	do	Dolomite	(2)	175	.90	3.7	10.8	16.8	8
13499	do	do	Limestone	(2)	175	.54	3.1	12.9	16.0	19
18942	do	do	Siliceous dolomite	(2)	176	.62	3.5	11.4	15.3	16
20858	do	do	Dolomite	(2)	175	.41	2.9	13.8	16.7	17
20859	do	do	do	(2)	175	1.05	3.5	11.4	17.7	12
20860	do	do	do	(2)	172	.81	2.9	13.8	15.7	8
20937	do	do	Limestone	(2)	168	.24	4.9	8.2	14.0	5
1904	Staunton (near)	do	Dolomitic limestone	(2)	175	1.19	4.5	8.9	15.0	8
2087	Staunton (1 mile north of)	do	Limestone	(2)	168	1.98	3.4	11.8	15.5	11
3724	Waynesboro	do	Sandstone	(2)	162	1.08	7.9	5.1	19.0	6
5437	do	do	Calcareous slate	(2)	172	.42	4.6	8.7	11.8	10
5476	do	do	Limestone	(2)	178	.22	5.4	7.4	18.3	19

5926	do	do	Quartzite	(2)	165	.27	4.6	8.7	(2)	(2)
20190	do	do	Slate	(2)	163	.37	6.4	6.2	17.0	11
3101	Waynesboro (near)	do	Sandstone	(2)	168	2.29	4.7	8.5	16.1	6
18978	West Augusta	do	Feldspathic quartzite	(2)	168	.35	3.4	11.8	16.3	17
18979	do	do	Sandstone	(2)	162	1.46	4.0	10.0	(2)	(2)
3095	(1)	do	Chlorite schist	(2)	187	.37	2.9	13.8	16.8	22
8741	(1)	do	Altered diabase	(2)	181	.39	3.8	10.5	13.2	9
23109	Carloover (near)	Bath	Dolomite	(2)	177	.56	4.2	9.5	18.0	8
8804	Abert	Bedford	Granite gneiss	7,200 [3] 13,820	175	1.26	5.2	7.7	18.8	9
4678	Bedford	do	do	(2)	172	.38	4.4	9.1	17.8	7
1968	Boonsboro	do	Biotite gneiss	(2)	162	1.16	8.8	4.5	10.8	2
16228	Clay (near)	do	Schist	(2)	192	.82	5.6	7.1	16.0	14
1959	Lynchburg (near)	do	Hornblende-epidote schist	(2)	184	.79	8.6	4.7	12.3	(2)
2912	do	do	Biotite gneiss	(2)	175	.40	11.1	3.6	15.8	6
3088	do	do	Biotite schist	(2)	178	.46	7.3	5.5	16.7	8
13990	Lynchburg (west of)	do	Gabbro	(2)	175	.31	4.9	8.2	18.7	7
14224	Major	do	Altered andesite	(2)	188	.43	2.7	14.8	17.3	9
2913	(1)	do	Hornblende schist	(2)	193	.38	9.4	4.3	(2)	(2)
16686	(1)	do	Siliceous dolomite	(2)	176	.32	4.4	9.1	(2)	12
13906	Blue Ridge	Botetourt	do	(2)	174	.17	4.8	8.3	16.7	10
14449	do	do	Limestone	(2)	195	.17	6.2	6.5	15.0	5
16648	Buchanan	do	Calcareous slate	(2)	170	.23	5.5	7.3	(2)	9
13724	Buchanan (north of)	do	Argillaceous limestone	(2)	173	.27	3.3	12.1	17.3	23
15111	Buchanan (near)	do	Siliceous dolomite	(2)	176	.65	3.3	12.1	16.3	12
20963	Eagle Mountain	do	Limestone	(2)	169	.23	4.5	8.9	14.0	6
2756	Gala	do	Quartzite	(2)	162	.71	2.0	20.0	(2)	(2)
2757	do	do	do	(2)	165	.19	3.2	12.5	(2)	(2)
3357	Lithia	do	Limestone	(2)	168	.85	3.2	12.5	16.8	5
23106	Nace (near)	do	do	(2)	169	.26	5.0	8.0	15.3	4
21170	Rocky Point	do	do	19,645	169	.15	4.5	8.9	12.0	5
23466	do	do	do	(2)	170	.13	(2)	(2)	14.7	6
23467	do	do	do	(2)	170	.18	(2)	(2)	16.0	5
23468	do	do	do	(2)	169	.29	(2)	(2)	16.0	5
23469	do	do	do	(2)	169	.25	(2)	(2)	15.3	6
23470	do	do	do	(2)	170	.41	(2)	(2)	13.7	4
23471	do	do	Argillaceous limestone	(2)	170	.17	(2)	(2)	15.3	6
23695	do	do	Limestone	(2)	168	.56	5.0	8.0	13.3	5
23696	do	do	do	(2)	170	.13	5.2	7.7	15.0	5
23697	do	do	do	(2)	170	.47	5.7	7.0	16.0	6
24339	do	do	Argillaceous limestone	(2)	169	.20	5.2	7.7	13.3	5
28315	do	do	Limestone	(2)	(2)	(2)	3.9	10.3	(2)	(2)
15452	Saltpetre Cave	do	Dolomite	(2)	179	.50	6.7	6.0	16.7	7
24127	Troutville (near)	do	do	(2)	175	.28	3.6	11.1	18.3	8
3326	Altavista	Campbell	Granite	(2)	162	.29	3.7	10.8	18.7	10
3327	do	do	Mica gneiss	(2)	172	.19	2.3	17.4	18.0	18
5715	do	do	Biotite schist	(2)	168	.17	3.3	12.1	18.3	17
6599	do	do	Quartz-mica schist	(2)	168	.41	3.3	12.1	17.7	18
11565	Bocock	do	Quartz	(2)	165	.33	15.0	2.7	(2)	(2)
11626	Halsey (near)	do	Epidosite	(2)	189	.87	6.2	6.5	18.0	5
11779	do	do	Hornblende epidosite	(2)	198	.34	3.9	10.3	16.7	9

[1] Exact location not known. [2] Test not made. [3] Test made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
2162	Lone Jack	Campbell	Quartzite	(2)	165	0.20	2.6	15.4	19.0	14
2905	do	do	Quartz schist	(2)	168	.18	3.9	1.3	(2)	(2)
9891	do	do	Quartzite schist	(2)	159	1.34	12.0	3.3	(2)	(2)
9904	do	do	Aplitic granite	20,200	165	.53	5.4	7.4	18.7	7
11551	do	do	Quartz	(2)	162	.71	10.9	3.7	(2)	(2)
14651	do	do	Sericite gneiss	(2)	165	.77	6.0	6.7	18.0	7
5050	Lynchburg	do	do	(2)	168	.37	3.3	12.1	18.7	9
10344	do	do	Quartzite	25,885	160	1.20	4.3	9.3	18.6	14
12954	do	do	Biotite schist	(2)	166	1.60	6.8	5.9	16.0	6
16307	do	do	Dolomitic marble	(2)	172	.24	5.0	8.0	(2)	7
16783	do	do	Hornblende schist	(2)	186	.52	6.9	5.8	17.0	9
24492	do	do	Gneissoid granite	26,510	165	.62	4.2	9.5	18.7	7
2718	Lynchburg (near)	do	Hornblende schist	(2)	190	.49	4.4	9.1	15.2	8
11251	Lynchburg (5 miles from)	do	Quartz	(2)	165	.20	5.8	6.9	(2)	(2)
11362	Lynchburg (near)	do	Hornblende gneiss	(2)	178	.80	10.3	3.9	19.3	8
12529	do	do	do	(2)	180	.90	11.5	3.5	(2)	(2)
12834	do	do	Hornblende schist	(2)	184	.78	13.5	3.0	16.3	5
16227	Lynchburg (near)	do	Hornblende gneiss	(2)	187	.73	10.0	4.0	16.7	4
16440	do	do	Amphibolite	(2)	187	.68	10.3	3.9	(2)	8
28637	do	do	Biotite schist	(2)	186	.45	5.6	7.1	14.0	7
2050	(1)	do	Granite	(2)	165	.51	7.5	5.3	16.5	6
2601	(1)	do	Limestone	(2)	168	.51	5.7	7.0	14.3	4
2602	(1)	do	do	(2)	168	.15	4.2	9.5	17.1	5
4619	(1)	do	Calcareous sandstone	(2)	172	2.81	4.2	9.5	13.6	6
6821	(1)	do	Muscovite schist	(2)	172	.40	4.6	8.7	14.3	8
9819	Cliffview	Carroll	Hornblende schist	(2)	184	.71	4.4	9.1	18.3	14
9820	do	do	Altered hornblende gneiss	(2)	181	1.60	15.8	2.5	14.3	5
19198	Shorts Creek	do	Quartzite	(2)	165	.28	3.0	13.3	19.3	17
20097	Woodlawn	do	Mica gneiss	(2)	166	1.04	5.9	6.8	17.0	7
3275	Randolph	Charlotte	Altered diorite	(2)	181	.59	2.8	14.3	18.8	26
3276	do	do	Hornblende granite	(2)	162	1.61	4.0	10.0	18.6	9
1774	Richmond (2 miles from)	Chesterfield	Granite	(2)	165	.31	3.2	12.5	17.5	11
1393	(1)	do	do	(2)	165	.44	2.5	16.0	(2)	(2)
3239	(1)	do	do	(2)	165	.23	2.1	19.0	18.6	13
12984	(1)	do	Biotite granite	(2)	163	.87	3.9	10.3	18.7	12
7586	Berryville	Clarke	Argillaceous limestone	(2)	172	.16	2.5	16.0	17.4	13
18106	Boyce	do	Limestone	(2)	169	.13	15.7	2.5	(2)	(2)
13193	(1)	do	do	(2)	166	.51	6.4	6.2	15.0	7
492	(1)	Craig	Dolomitic limestone	(2)	168	.31	4.1	9.8	(2)	(2)

2284	Brandy	Culpeper	Metamorphic sandstone	(2)	159	2.77	2.4	16.7	18.3	30
3937	do	do	Chert	(2)	181	.27	(2)	(2)	18.9	17
4816	Brandy (near)	do	Argillite	(2)	175	.42	(2)	(2)	16.8	26
10115	Boston	do	Altered rhyolite	(2)	168	.84	4.7	8.5	19.0	5
19358	do	do	Sericite gneiss	(2)	166	.36	5.4	7.4	17.3	8
19359	do	do	Feldspathic sandstone	(2)	165	.57	4.9	8.2	17.7	7
19361	do	do	Altered sandstone	(2)	167	.50	3.5	11.4	18.0	13
19365	do	do	Mica schist	(2)	168	.42	2.8	14.3	18.0	15
20077	do	do	Altered sandstone	(2)	162	.37	2.9	13.8	18.0	12
8318	Boston (near)	do	Micaceous quartzite	(2)	165	.39	4.6	8.7	18.7	7
8319	do	do	Biotite gneiss	(2)	168	.25	2.9	13.8	18.2	11
4089	Buena	do	Gabbro	(2)	193	.41	(2)	(2)	18.2	14
24489	do	do	Diabase	37,550	191	.32	3.2	12.5	19.3	12
5878	Culpeper	do	Altered basalt	(2)	187	.23	3.0	13.3	18.2	47
5879	do	do	do	(2)	178	1.97	2.8	14.3	18.5	20
7515	do	do	Amphibolite	(2)	187	.22	4.6	8.7	17.5	18
2324	Culpeper (2 miles southwest of)	do	do	(2)	190	1.18	2.8	14.3	16.6	24
2325	Culpepper (1 mile southeast of)	do	Ferruginous sandstone	(2)	159	3.04	2.3	17.4	16.8	19
2326	do	do	Amphibolite	(2)	181	1.65	2.1	19.0	17.8	11
3520	Culpeper (near)	do	Altered diabase	(2)	184	.85	3.3	12.1	18.4	24
7063	do	do	Argillaceous sandstone	(2)	162	2.51	4.7	8.5	14.7	12
7168	Culpeper (3 miles northeast of)	do	Altered basalt breccia	(2)	187	.41	4.0	10.0	11.8	5
8320	Culpeper (9 miles southwest of)	do	Sericite schist	(2)	171	.60	5.9	6.8	18.5	4
8321	Culpeper (7 miles from)	do	Amphibolite	(2)	193	.41	2.3	17.4	17.7	9
8432	Griffinsburg	do	Granite gneiss	(2)	165	.43	4.7	8.5	18.0	5
8433	do	do	Amphibolite	(2)	193	.46	1.5	26.7	18.5	16
8618	do	do	Granite gneiss	(2)	168	.23	4.1	9.8	18.5	6
8619	do	do	Amphibolite	(2)	196	.40	2.8	14.3	18.3	6
2283	Kellyville (near)	do	Metamorphic sandstone	(2)	172	.67	2.6	15.4	18.8	60
2281	Stevensburg	do	do	(2)	172	1.07	2.2	18.2	19.3	20
2282	(1)	do	do	(2)	168	1.38	2.3	17.4	19.1	14
3731	(1)	do	Hypersthene diabase	(2)	190	.07	3.7	10.8	18.0	11
3862	(1)	do	Argillaceous sandstone	(2)	175	.33	3.1	12.9	17.8	24
3867	(1)	do	Slate	(2)	175	.32	2.8	14.3	16.8	32
4817	(1)	do	Argillite	(2)	175	.32	2.8	14.3	17.3	24
4992	(1)	do	Indurated argillaceous sandstone.	(2)	168	.64	2.3	17.4	16.3	32
6258	(1)	do	Argillaceous sandstone	(2)	153	4.62	4.6	8.7	12.3	9
6543	(1)	do	Biotite schist	(2)	175	.16	3.8	10.5	15.2	9
6544	(1)	do	do	(2)	168	.37	4.6	8.7	14.9	9
6545	(1)	do	Mica gneiss	(2)	168	.63	8.9	4.5	15.1	7
11394	Clintwood	Dickenson	Feldspathic sandstone	(2)	158	3.14	5.4	7.4	5.0	6
16190	do	do	Calcareous sandstone	(2)	158	2.47	5.0	8.0	17.3	7
16191	do	do	Feldspathic sandstone	(2)	158	3.03	8.2	4.9	11.3	6
24604	Petersburg	Dinwiddie	Biotite granite	30,680	165	.38	4.1	9.8	19.2	11
6796	(1)	do	Granite	13,150	165	.46	(2)	(2)	18.8	5
19211	Hampton (near)	Elizabeth City	Sandstone	(2)	155	.69	3.6	11.1	19.3	13
21199	Annandale (near)	Fairfax	Biotite granite	(2)	167	.48	2.5	16.0	19.2	13
21200	do	do	Weathered granite	(2)	164	1.17	3.4	11.8	18.3	9
27557	Bullrun	do	Diabase	(2)	186	.28	3.0	13.3	18.7	14
27565	do	do	do	(2)	185	.09	3.0	13.3	18.7	18

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
27566	Bullrun	Fairfax	Diabase	(2)	187	0.19	3.4	11.8	18.7	12
28066	do	do	do	(2)	187	.07	2.4	16.7	18.7	22
28162	do	do	do	(2)	188	.17	2.2	18.2	18.7	21
21293	Chantilly (1 mile south of)	do	do	(2)	183	.99	3.9	10.3	17.3	7
6315	Clifton Station	do	do	(2)	184	.50	3.0	13.3	18.0	14
7187	do	do	do	(2)	184	.37	2.5	16.0	17.4	15
24508	Colvin Run	do	Talc schist	(2)	181	.56	7.4	5.4	16.7	4
25229	do	do	Micaceous quartzite	(2)	175	.16	5.7	7.0	17.0	13
24509	Coral (near)	do	Chloritic quartzite	(2)	166	.68	2.7	14.8	19.3	20
3445	Falls Church	do	Muscovite granite	(2)	165	.45	3.3	12.1	18.9	15
5005	do	do	Gneissoid granite	(2)	165	1.42	5.5	7.3	17.8	8
4988	Falls Church (near)	do	Biotite granite	(2)	175	.13	2.9	13.8	18.4	13
20834	Falls Church (west of)	do	Muscovite granite	(2)	162	.55	2.7	14.8	18.7	10
1196	Fairfax	do	Limestone	(2)	168	.47	(2)	(2)	15.8	6
1197	do	do	do	(2)	168	.20	(2)	(2)	13.2	6
1198	do	do	do	(2)	168	.73	(2)	(2)	18.2	(2)
6043	do	do	Serpentine	(2)	175	1.14	4.9	8.2	15.8	11
17231	do	do	Amphibolite	(2)	174	1.32	9.1	4.4	6.3	6
17699	do	do	Talcose amphibolite	(2)	185	.72	4.1	9.8	14.0	7
17700	do	do	Amphibolite	(2)	187	.51	3.4	11.8	17.7	18
18469	do	do	Talc-epidote schist	(2)	187	.60	4.2	9.5	16.0	7
19494	do	do	Actinolite-epidote schist	(2)	182	1.22	6.0	6.7	13.7	5
19495	do	do	do	(2)	177	2.04	8.9	4.5	8.0	4
19496	do	do	do	(2)	180	1.74	6.5	6.2	(2)	(2)
19616	do	do	Ferruginous sandstone	(2)	143	6.30	12.4	3.2	0.0	6
19617	do	do	Muscovite-chlorite schist	(2)	138	1.23	12.9	3.1	6.3	6
19618	do	do	Amphibolite	(2)	184	2.92	13.1	3.1	12.0	5
19619	do	do	Talc amphibolite	(2)	185	1.22	10.2	3.9	0.0	5
19995	do	do	Amphibolite	(2)	197	.26	2.8	14.3	18.7	15
5371	Fairfax (near)	do	Altered diorite	(2)	178	.29	5.1	7.8	17.4	7
16729	do	do	Mica gneiss	(2)	172	1.85	9.8	4.1	4.7	6
19524	do	do	Talc-chlorite schist	(2)	175	1.06	16.0	2.5	(2)	(2)
23076	Fairfax (6½ miles from)	do	Argillaceous limestone	(2)	163	2.04	4.8	8.3	11.0	8
26230	Fairfax (near)	do	Talc-chlorite schist	(2)	179	.29	5.4	7.4	18.7	9
26613	do	do	Chlorite schist	(2)	176	.83	4.7	8.5	17.3	6
26736	do	do	Chlorite amphibolite	(2)	188	.47	3.9	10.3	10.7	8
26816	do	do	Serpentine	(2)	174	.28	2.6	15.4	18.7	14
19022	Great Falls	do	do	(2)	(2)	(2)	(2)	(2)	0.0	4
20907	Great Falls (near)	do	Muscovite gneiss	(2)	176	.66	5.4	7.4	15.7	9

20908	do	do	Sericite gneiss	(2)	169	1.15	4.0	10.0	18.3	17
1954	Herndon	do	Diabase	(2)	168	.19	(2)	(2)	18.7	19
2000	do	do	Feldspathic sandstone	(2)	156	2.45	5.1	7.8	17.4	11
15011	do	do	Rhyolite breccia	(2)	167	2.32	5.9	6.8	(2)	(2)
19724	do	do	Diabase	(2)	191	.41	3.8	10.5	17.7	11
24523	do	do	Conglomeratic sandstone	(2)	183	1.88	5.0	8.0	17.3	8
25012	do	do	Calcareous shale	(2)	158	4.09	6.0	6.7	17.0	14
26705	do	do	Diabase	(2)	185	.63	3.4	11.8	18.7	10
20906	Langley (near)	do	Amphibolite	(2)	192	.33	2.5	16.0	18.3	12
21368	Lewinsville (near)	do	Mica gneiss	(2)	(2)	(2)	9.2	4.3	(2)	(2)
3017	Lorton Valley	do	Sericite gneiss	(2)	172	.23	2.1	19.0	18.8	14
8226	McLean	do	Granite gneiss	(2)	175	.38	3.7	10.8	18.5	4
24481	Merrifield (near)	do	Altered granite	(2)	172	.54	3.6	11.1	18.3	8
22427	Oakton	do	Biotite gneiss	(2)	168	2.48	10.6	3.8	(2)	(2)
20909	Spring Hill	do	Sericite gneiss	(2)	176	.43	6.1	6.6	15.3	9
8779	Vienna	do	Epidote-chlorite schist	(2)	168	.65	8.1	4.9	17.4	13
21706	do	do	Mica gneiss	(2)	177	.54	(2)	(2)	16.3	10
22662	do	do	Feldspathic quartzite	(2)	171	.23	2.4	16.7	18.7	22
23764	do	do	Sericite gneiss	(2)	170	.47	3.4	11.8	18.7	10
1318	(1)	do	Granite gneiss	(2)	168	.31	3.5	11.4	(2)	(2)
4173	(1)	do	Epidosite	(2)	187	.53	3.7	10.8	16.3	10
4397	(1)	do	Granite gneiss	(2)	168	.45	4.3	9.3	18.2	11
5010	(1)	do	Sericite gneiss	(2)	168	1.00	9.0	4.4	15.7	8
5011	(1)	do	Biotite gneiss	(2)	175	.39	4.1	9.8	19.0	11
5012	(1)	do	Muscovite gneiss	(2)	165	.88	10.5	3.8	16.0	7
5013	(1)	do	Biotite granite	(2)	172	.34	5.1	7.8	18.7	13
5014	(1)	do	Biotite gneiss	(2)	178	.17	4.0	10.0	17.8	12
7238	(1)	do	Altered diabase	(2)	175	1.88	3.7	10.8	16.0	4
1785	Bealeton (1 mile east of)	Fauquier	Slate	(2)	168	1.37	3.8	10.5	11.7	10
1600	Broad Run	do	Quartzite	(2)	165	.32	3.1	12.9	(2)	(2)
4617	do	do	Micaceous quartzite	(2)	165	2.95	2.6	15.4	(2)	(2)
4900A	Broad Run (near)	do	Quartz	28,400	165	.10	(2)	(2)	19.5	7
4900B	do	do	Epidosite	28,000	200	.26	(2)	(2)	19.0	8
4900C	do	do	Sandstone	(2)	165	.14	(2)	(2)	19.0	11
4175	Catlett	do	Gabbro	(2)	187	.34	1.8	22.2	13.5	20
782	Catlett (near)	do	Diabase	(2)	187	.14	1.8	22.2	(2)	(2)
8304	Delaplane	do	Hornblende granite	(2)	165	.98	7.9	5.1	19.5	4
8305	do	do	Altered diabase	(2)	187	.70	2.3	17.4	18.7	38
15382	Marshall	do	Altered granite	(2)	162	2.17	6.6	6.1	18.0	8
16030	do	do	do	(2)	164	.65	3.8	10.5	18.7	10
16226	Midland (1 mile north of)	do	Altered basalt	(2)	175	.81	3.0	13.3	17.3	8
6603	Rectortown	do	Altered diabase	(2)	(2)	(2)	(2)	(2)	17.3	6
1786	Remington (3 miles east of)	do	Slate	(2)	168	1.29	2.2	18.2	16.0	21
3132	The Plains	do	Hornblende-epidote schist	(2)	190	1.28	8.8	4.5	17.9	20
13195	do	do	Epidosite	(2)	188	.50	2.4	16.7	18.3	22
13196	do	do	do	(2)	186	.69	7.9	5.1	16.0	17
15767	do	do	Calcareous talc schist	(2)	180	.81	3.9	10.3	16.7	12
15768	do	do	Chlorite talc schist	(2)	177	1.52	10.7	3.7	(2)	(2)
15769	do	do	Chlorite schist	(2)	181	.72	11.7	3.4	(2)	(2)
15770	do	do	Chlorite-epidote schist	(2)	184	.52	3.2	12.5	17.3	24
15896	do	do	do	(2)	187	.48	4.8	8.3	17.0	10

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
16308	The Plains	Fauquier	Hornblende-epidote schist	(2)	185	0.40	9.9	4.0	(2)	(2)
16309	do	do	Chlorite-epidote schist	(2)	184	.72	5.2	7.7	(2)	(2)
16310	do	do	Hornblende-epidote schist	(2)	190	.42	6.2	6.5	(2)	22
16312	do	do	Chlorite-epidote schist	(2)	187	.44	6.4	6.2	(2)	(2)
16626	do	do	do	(2)	183	.39	4.4	9.1	(2)	11 [3] 50
17086	do	do	do	(2)	187	.24	5.3	7.5	18.0 [3] 13.3	5 [3] 11
18042	do	do	Talc-epidote schist	(2)	193	.67	7.9	5.1	(2)	(2)
18043	do	do	do	(2)	193	.78	4.6	8.7	(2)	(2)
18144	do	do	Epidote amphibolite	(2)	193	.32	2.2	18.2	17.7	21 [3] 31
18893	do	do	Amphibolite	(2)	189	.33	2.8	14.3	(2)	(2)
18894	do	do	do	(2)	188	.20	3.3	12.1	17.3	12
2414	The Plains (1½ miles north of)	do	Epidosite	(2)	187	.59	2.0	20.0	18.6	22
2415	The Plains (4 miles north of)	do	Schist	(2)	168	.63	5.4	7.4	17.8	11
2416	The Plains (4¾ miles north of)	do	Gneiss	(2)	168	.47	4.1	9.8	18.7	7
5639	Warrenton	do	Epidosite	(2)	181	.56	4.0	10.0	(2)	(2)
5640	do	do	do	(2)	193	1.05	3.3	12.1	18.7	16
5641	do	do	do	(2)	187	1.65	3.6	11.1	19.3	16
5762	do	do	Diabase	(2)	187	.45	2.1	19.0	18.6	24
9870	do	do	Epidote-chlorite schist	(2)	187	1.46	3.6	11.1	(2)	(2)
9919	do	do	Amphibolite	(2)	187	.76	4.6	8.7	(2)	(2)
9920	do	do	do	(2)	181	2.44	5.9	6.7	(2)	(2)
10304	do	do	Chlorite-epidote schist	(2)	185	.63	3.5	11.4	14.7	11
14460	do	do	Epidosite	(2)	194	1.32	6.0	6.7	18.3	(2)
2935	(1)	do	Epidote-chlorite schist	(2)	190	.14	2.8	14.3	16.8	20
3084	(1)	do	Sericite gneiss	(2)	165	.35	3.4	11.8	18.8	9
3343	(1)	do	Gneiss	(2)	172	.28	6.0	6.7	17.3	10
3499	(1)	do	Hornblende schist	(2)	190	.34	4.6	8.7	15.2	9
13197	(1)	do	Epidosite	(2)	202	.54	1.8	22.2	18.3	19
20096	Floyd	Floyd	Hornblende-mica gneiss	(2)	168	2.81	10.6	3.8	11.7	7
24464	Carysbrook	Fluvanna	Chert	(2)	161	1.09	3.6	11.1	19.3	20
5923	Strathmore	do	Chlorite-epidote schist	13,210	175	.36	5.0	8.0	16.1	6
15485	do	do	Chlorite schist	(2)	185	.33	3.3	12.1	15.0	10
23852	do	do	Gneiss	(2)	175	.36	5.2	7.7	18.7	7
6465	Strathmore (near)	do	Sericite-chlorite schist	(2)	172	.43	4.1	9.8	13.0	9
13765	Shores	do	Chlorite schist	(2)	181	.44	2.4	16.7	18.3	10
19069	(1)	do	Quartz	(2)	164	.19	10.2	3.9	(2)	(2)

14583	Winchester	Frederick	Limestone	(2)	171	.10	8.4	4.8	15.3	3
14879	do	do	Dolomite	(2)	173	.28	3.5	11.4	16.7	14
14880	do	do	Calcareous slate	(2)	158	3.16	8.9	4.5	0.0	5
14969	do	do	Dolomite	(2)	176	.21	3.0	13.3	17.3	15
13194	Winchester (near)	do	Limestone	(2)	169	.18	7.5	5.3	15.3	7
11248	Bluff City	Giles	Siliceous dolomite	(2)	175	.33	3.6	11.1	(2)	(2)
5678	Eggleston (near)	do	Dolomite	45,690	178	.44	4.4	9.1	16.0	24
5978	Pembroke	do	Dolomitic marble	(2)	178	.27	3.1	12.9	14.7	11
14463	do	do	Siliceous dolomite	(2)	177	.30	3.2	12.5	16.3	9
23059	do	do	Dolomite	(2)	177	.61	3.1	12.9	16.7	13
14493	Ripplemead	do	Siliceous dolomite	(2)	175	.52	2.7	14.8	17.3	13
23058	do	do	Limestone	(2)	170	.08	4.0	10.0	16.0	7
1317	Boscobel	Goochland	Granite gneiss	(2)	165	.30	4.0	10.0	18.6	(2)
5924	do	do	do	13,550	162	.28	4.5	8.9	19.3	8
21210	Irwin	do	Biotite gneiss	(2)	176	.25	4.3	9.3	15.7	8
1857	State Farm	do	Gneiss	(2)	168	.30	3.1	12.9	17.6	9
3240	do	do	Granite gneiss	(2)	165	.21	3.5	11.4	19.0	12
1858	(1)	do	Biotite gneiss	(2)	162	.58	6.7	6.0	18.0	8
1859	(1)	do	Granite gneiss	(2)	165	.26	4.0	10.0	18.2	9
8712	(1)	do	Granite	(2)	162	.52	4.8	8.3	18.7	15
1778	Emporia	Greensville	do	(2)	168	.19	2.5	16.0	18.7	10
22624	do	do	Quartz gabbro	(2)	174	.35	2.4	16.7	18.7	13
3468	Emporia (near)	do	Granite gneiss	(2)	181	.38	3.5	11.4	17.8	9
3036	Virgilina	Halifax	Altered andesite	(2)	172	.15	3.3	12.1	(2)	(2)
3172	do	do	Epidote-chlorite schist	(2)	168	.18	3.7	10.8	(2)	(2)
1878	Verdon	Hanover	Granite	(2)	165	.44	2.8	14.3	19.0	19
11412	Forest Hill	Henrico	Biotite granite	19,270	(2)	(2)	(2)	(2)	18.0	6
1823	Richmond	do	Granite	(2)	165	.54	4.1	9.8	17.8	8
3933	do	do	Biotite granite	(2)	165	.21	3.1	12.9	18.8	11
8747	do	do	Granite	(2)	162	.67	4.4	9.1	19.0	7
8942	do	do	Aplitic granite	(2)	165	.53	2.3	17.4	18.2	8
16988	Richmond (west of)	do	Biotite granite	(2)	164	.47	3.4	11.8	18.0	10
3266	(1)	do	Hornblende-epidote schist	(2)	190	.76	2.5	16.0	18.0	9
16519	(1)	do	Limestone	(2)	167	.94	6.9	5.8	(2)	5
2863	Cumberland Gap, Tenn. (near)	Lee	do	(2)	168	.48	4.0	10.0	16.5	10
2864	do	do	do	(2)	168	.07	4.8	8.3	16.0	6
14584	Dryden	do	Siliceous limestone	(2)	168	.30	5.7	7.0	14.7	7
20123	do	do	Limestone	(2)	169	.20	5.8	6.9	15.3	6
20124	do	do	do	(2)	170	.28	5.4	7.4	15.3	3
20370	do	do	do	(2)	168	.29	5.5	7.3	15.0	6
23157	Jonesville (2½ miles west of)	do	Argillaceous limestone	(2)	166	2.23	8.0	5.0	6.3	5
12878	Stickleyville	do	do	(2)	167	.44	9.1	4.4	14.3	8
12879	do	do	Limestone	(2)	165	.45	5.4	7.4	13.3	6
12880	do	do	Ferruginous sandstone	(2)	167	.83	5.3	7.5	8.0	8
13176	do	do	Limestone	(2)	169	.13	6.2	6.5	16.0	8
13641	do	do	do	(2)	168	.21	5.4	7.4	15.3	11
13917	do	do	do	(2)	168	.34	6.1	6.6	16.3	4
13918	do	do	Argillaceous limestone	(2)	169	.30	6.0	6.7	15.7	5
19723	Aldie	Loudoun	Altered basalt	(2)	181	.26	3.7	10.8	17.7	9
20541	do	do	Altered diabase	(2)	177	.73	3.3	12.1	18.0	20

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plans.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
20542	Aldie	Loudoun	Altered basalt	(2)	180	0.35	3.1	12.9	18.3	12
19718	Aldie (1 mile southeast of)	do	Basalt	(2)	180	.39	3.2	12.5	17.7	10
19722	Arcola	do	do	(2)	187	.24	1.9	21.1	18.7	34
23528	Arcola (2 miles southeast of)	do	Fragmental rhyolite	(2)	166	.89	1.9	21.1	18.0	26
23529	do	do	do	(2)	163	1.87	3.0	13.3	17.7	15
1991	Belmont Park	do	Gabbroitic diabase	(2)	187	.92	2.8	14.3	18.5	16
9047	do	do	Diabase	(2)	187	.43	2.6	15.4	18.3	13
16047	do	do	Gabbroitic diabase	(2)	(2)	(2)	2.5	16.0	(2)	(2)
16048	do	do	do	(2)	(2)	(2)	2.6	15.4	(2)	(2)
1690	Belmont Park (near)	do	Diabase	(2)	187	.35	3.1	12.9	18.2	14
1322	Bluemont (near)	do	Hornblende schist	(2)	187	1.87	2.9	13.8	13.1	13
10009	Hamilton (¾ mile east of)	do	Amphibolite	(2)	178	.49	3.9	10.3	17.3	10
7832	Leesburg	do	Cherty limestone	(2)	168	.47	5.3	7.5	13.2	6
15488	do	do	Calcareous sandstone	(2)	151	2.82	3.4	11.8	15.7	17
15489	do	do	Chlorite-epidote schist	(2)	188	1.20	12.3	3.3	(2)	8
15490	do	do	Crystalline limestone	(2)	172	.92	6.3	6.3	13.7	6
20514	do	do	Marble	(2)	(2)	(2)	4.8	8.3	17.3	10
21728	do	do	Siliceous dolomite	(2)	(2)	(2)	6.0	6.7	(2)	(2)
21729	do	do	do	(2)	(2)	(2)	5.6	7.1	(2)	(2)
24802	Leesburg (near)	do	Felsitic conglomerate	(2)	170	.52	10.0	4.0	(2)	(2)
24855	do	do	Conglomerate	(2)	171	.34	4.3	9.3	(2)	(2)
24903	do	do	Quartzite	(2)	(2)	(2)	(2)	(2)	18.7	16
15487	Lucketts	do	Limestone conglomerate	(2)	175	.39	3.8	10.5	17.0	10
16031	do	do	Conglomerate	(2)	187	.63	5.8	6.9	(2)	(2)
16257	do	do	Limestone	(2)	175	.28	4.1	9.8	(2)	(2)
16414	do	do	Limestone conglomerate	(2)	174	.33	4.3	9.3	(2)	9
17087	do	do	do	(2)	175	.35	5.9	6.8	(2)	(2)
18762	do	do	Sericite schist	(2)	168	.50	6.7	6.0	18.7	7
18789	do	do	Quartzite	(2)	165	.25	6.2	6.5	19.0	8
24599	Oatlands	do	do	(2)	165	.43	4.6	8.7	(2)	(2)
14197	Point of Rocks, Md. (near)	do	Sericite gneiss	(2)	168	.36	5.7	7.0	19.3	12
14198	do	do	Limestone conglomerate	(2)	175	.33	4.5	8.9	(2)	(2)
1011	Paeonian Springs	do	Gneiss	(2)	168	.43	5.7	7.0	18.0	14
1012	do	do	Epidosite	(2)	172	.45	3.6	11.1	19.1	14
3493	(1)	do	Gabbro	(2)	187	.21	2.8	14.3	18.6	19
3817	(1)	do	Hornblende schist	(2)	187	.75	3.4	11.8	19.0	26
4826	(1)	do	Quartzite	(2)	165	.17	3.5	11.4	19.3	21
871	Mineral	Louisa	Chlorite gneiss	(2)	187	.16	8.1	4.9	(2)	(2)
5716	Kenbridge	Lunenburg	Gneissoid granite	(2)	162	.15	3.1	12.9	19.1	8

3265	(1)	do	Epidote quartzite	(2)	168	.76	2.7	14.8	18.2	10
3149	Chase City	Mecklenburg	Epidote-chlorite schist	(2)	184	.57	3.5	11.4	14.5	12
3150	do	do	Sericite schist	(2)	168	.73	8.5	4.7	12.4	10
3174	Clarksville	do	Syenite	(2)	153	2.88	3.5	11.4	18.3	11
3175	do	do	Sericite gneiss	(2)	168	.31	4.3	9.3	15.9	6
3176	do	do	Biotite schist	(2)	168	.85	4.2	9.5	16.3	9
3267	do	do	Syenite	(2)	153	3.06	(2)	(2)	18.6	17
3268	do	do	Sericite gneiss	(2)	172	.21	(2)	(2)	17.5	9
3269	do	do	Granite gneiss	(2)	165	.54	2.2	18.2	19.3	25
7849	do	do	Mica schist	(2)	165	1.01	3.3	12.1	10.2	9
7850	do	do	Altered syenite	(2)	(2)	(2)	7.2	5.6	16.4	9
24436	Soudan	do	Altered trachyte	(2)	171	.39	4.6	8.7	16.7	7
537	Blacksburg	Montgomery	Dolomite	(2)	181	.29	3.6	11.1	(2)	(2)
29231	East Radford	do	Siliceous dolomite	(2)	176	.16	2.6	15.4	16.7	17
29232	do	do	Dolomite	(2)	178	.11	3.0	13.3	16.7	17
14284	Newport (3 miles east of)	do	Feldspathic sandstone	(2)	161	1.73	(2)	(2)	16.7	8
3096	Afton	Nelson	Epidote-chlorite schist	(2)	187	.73	3.6	11.1	18.5	7
6474	Arrington	do	Altered biotite granite	(2)	175	.40	5.6	7.1	16.3	6
6475	do	do	Hornblende gneiss	(2)	193	.49	2.5	16.0	17.3	10
8225	do	do	Amphibolite	(2)	190	.12	2.4	16.7	18.0	8
8428	do	do	Gneissoid granite	(2)	165	.39	3.5	11.4	18.8	9
6494	Arrington (4 miles west of)	do	Biotite gneiss	(2)	175	.23	5.3	7.5	18.5	6
13900	Arrington (2½ miles north of)	do	Amphibolite	(2)	193	.90	3.6	11.1	17.6	15
15152	Arrington (near)	do	do	(2)	185	1.42	3.5	11.4	18.3	14
15993	Arrington (2½ miles north of)	do	Quartz	(2)	165	.13	7.8	5.1	19.3	10
15994	do	do	Altered gneiss	(2)	171	1.60	9.3	4.3	18.3	11
15995	do	do	Amphibolite	(2)	192	.61	2.7	14.8	16.3	13
1975	Faber	do	Feldspathic sandstone	(2)	168	.42	3.6	11.1	18.3	13
5925	Greenway	do	Feldspathic quartzite	16,500	165	.40	2.5	16.0	18.8	11
5714	Oak Ridge	do	Quartz	(2)	165	.06	8.2	4.9	(2)	(2)
2820	Rockfish	do	Sericite gneiss	(2)	175	.34	7.9	5.1	17.3	5
2821	do	do	do	(2)	168	.41	6.0	6.7	17.3	6
12835	(1)	do	Biotite gneiss	(2)	171	.20	6.5	6.2	18.0	11
1584	Crewe (near)	Nottoway	Granite gneiss	(2)	165	.56	9.7	4.1	14.6	6
2168	(1)	do	Biotite gneiss	(2)	175	.99	10.4	3.8	16.5	5
2169	(1)	do	Granite	(2)	162	.47	5.0	8.0	18.7	10
2170	(1)	do	do	(2)	162	.92	3.4	11.8	18.2	7
6604	(1)	do	do	(2)	165	.68	6.6	6.1	18.2	8
20322	Barboursville	Orange	Micaceous sandstone	(2)	164	1.61	12.6	3.2	12.7	5
23618	do	do	Amphiboloite	(2)	193	1.26	2.9	13.8	18.3	9
20323	Barboursville (near)	do	Talc amphibolite	(2)	182	1.21	12.0	3.3	8.0	5
20324	do	do	Micaceous sandstone	(2)	165	1.17	7.6	5.3	15.3	6
21139	do	do	Ferruginous sandstone	(2)	154	3.76	7.3	5.5	14.3	5
23851	do	do	Micaceous quartzite	(2)	168	.85	3.8	10.5	18.0	6
1171	Orange	do	Altered diabase	(2)	187	.32	2.2	18.2	19.2	34
6958	(1)	do	Quartzite	(2)	165	.31	4.0	10.0	19.3	11
15944	Compton	Page	Feldspathic sandstone	(2)	148	5.55	18.0	2.2	8.3	4
10099	Luray	do	Argillaceous limestone	(2)	167	.75	5.4	7.4	14.3	5
22783	do	do	Altered rhyolite breccia	(2)	185	2.74	6.0	6.7	(2)	(2)
7052	Chatham (near)	Pittsylvania	Ferruginous sandstone	(2)	162	1.58	3.1	12.9	15.5	7
3256	Danville	do	Gneissoid granite	(2)	165	.47	2.3	17.4	19.1	24

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
28311	Danville	Pittsylvania	Granite gneiss	(2)	(2)	(2)	2.6	15.4	(2)	(2)
3384	Danville (near)	do	Biotite gneiss	(2)	168	0.15	(2)	(2)	17.8	10
13529	do	do	do	(2)	172	.49	4.2	9.5	18.7	10
19943	Dry Fork (near)	do	Sandstone	(2)	163	.68	2.8	14.3	18.7	17
19987	do	do	do	(2)	166	.43	2.7	14.8	17.7	15
14384	New Design (near)	do	Biotite gneiss	(2)	170	.41	4.5	8.9	18.0	6
4757	(1)	do	Granite gneiss	(2)	162	.22	3.4	11.8	18.8	9
4758	(1)	do	do	(2)	165	.22	3.6	11.1	18.3	10
4876	(1)	do	Mica gneiss	(2)	165	.34	3.8	10.5	17.6	8
5452	(1)	do	Granite gneiss	(2)	168	.18	(2)	(2)	17.5	7
13071	(1)	do	Quartz	(2)	165	.20	13.8	2.9	(2)	(2)
4058	Farmville	Prince Edward	Altered granite	(2)	162	.37	3.6	11.1	18.5	10
2862	Farmville (2 miles west of)	do	Syenite gneiss	(2)	168	.50	5.8	6.9	17.5	6
2875	do	do	Quartz	(2)	165	.09	9.2	4.3	(2)	(2)
10298	Buckland	Prince William	Diabase	(2)	178	1.75	(2)	(2)	17.3	16
5876	Gainesville	do	Epidosite	(2)	181	1.03	3.3	12.1	19.5	15
3352	Haymarket (½ mile from)	do	Altered basalt	(2)	175	2.32	3.0	13.3	18.3	24
876	Manassas	do	Gabbroitic diabase	(2)	187	.50	2.2	18.2	18.6	25
1312	do	do	Ferruginous sandstone	(2)	156	3.36	(2)	(2)	18.1	47
1599	do	do	Diabase	(2)	184	.96	2.9	13.8	17.9	17
1711	do	do	Ferruginous sandstone	(2)	168	1.13	3.6	11.1	18.0	28
9091	do	do	do	(2)	153	3.09	14.5	2.8	6.7	4
9092	do	do	do	(2)	(2)	(2)	(2)	(2)	5.7	6
7732	Manassas (5 miles south of)	do	Altered granite	(2)	165	.52	3.7	10.8	18.7	17
8589	Manassas (3 miles south of)	do	Altered diabase	(2)	187	.62	3.7	10.8	18.3	5
1666	Nokesville	do	Ferruginous sandstone	(2)	159	3.81	(2)	(2)	5.7	6
5492	do	do	do	17,780	162	2.99	4.0	10.0	16.3	7
581	Occoquan	do	Gneiss	(2)	172	.25	3.4	11.8	(2)	(2)
1661	do	do	Granite gneiss	(2)	168	.88	3.9	10.3	19.0	13
7317	do	do	Sericite gneiss	(2)	168	.45	2.2	18.2	18.5	17
20317	do	do	Granite gneiss	(2)	170	1.06	(2)	(2)	18.3	8
15366	Occoquan (near)	do	Altered granite	(2)	163	1.06	4.7	8.5	19.3	8
3353	(1)	do	Altered basalt	(2)	178	2.54	2.8	14.3	(2)	(2)
3354	(1)	do	do	(2)	181	1.82	1.7	14.8	18.0	12
11259	(1)	do	Altered diabase	(2)	181	.51	2.8	14.3	18.0	21
11260	(1)	do	Diabase	(2)	186	.48	2.9	13.8	(2)	(2)
15919	Draper	Pulaski	Siliceous limestone	(2)	168	.35	5.3	7.5	16.3	(2)
16025	do	do	Argillaceous limestone	(2)	170	.24	5.4	7.4	15.3	7
16026	do	do	Siliceous clay limestone	(2)	165	.20	4.6	8.7	14.7	11

15786	Draper (near)	do	Limestone	(2)	167	.71	6.8	5.9	15.0	7
7625	Dublin (near)	do	Argillaceous limestone	(2)	175	.20	3.1	12.9	18.0	22
8340	Pulaski	do	Dolomite	(2)	175	.58	5.2	7.7	17.0	6
8341	do	do	Argillaceous limestone	(2)	165	1.86	5.7	7.0	18.3	9
8342	do	do	Dolomite	(2)	175	.88	4.4	9.1	17.0	8
8343	do	do	Siliceous dolomite	(2)	168	1.18	13.3	3.0	17.0	5
8405	do	do	Dolomite	(2)	178	.46	4.0	10.0	17.0	10
6540	(1)	do	Argillaceous limestone	(2)	172	2.03	5.4	7.4	14.3	4
6541	(1)	do	Carbonaceous dolomite	(2)	175	.54	5.2	7.7	17.0	11
6577	(1)	do	Argillaceous limestone	(2)	175	.31	3.7	10.8	16.7	22
7452	Flint Hill	Rappahannock	Hornblende-epidote schist	(2)	187	.96	4.5	8.9	15.8	9
19360	Scrabble	do	Feldspathic sandstone	(2)	164	.60	4.0	10.0	17.7	12
19362	do	do	Altered gneiss	(2)	165	.81	4.9	8.2	18.0	8
19363	Woodville	do	Biotite gneiss	(2)	171	.34	5.0	8.0	17.0	10
19364	do	do	do	(2)	171	.68	5.3	7.5	17.7	8
14461	Woodville (near)	do	Altered granite	(2)	163	.70	3.8	10.5	18.3	12
19542	do	do	Biotite-sericite schist	(2)	173	.38	7.2	5.6	10.0	7
19556	Bonsack	do	Dolomite	(2)	177	.39	4.2	9.5	16.3	10
20580	Glenvar	Roanoke	do	(2)	176	.78	7.0	5.7	15.7	4
21147	do	do	do	(2)	175	.29	4.6	8.7	16.0	10
21204	do	do	do	(2)	177	.42	3.9	10.3	15.7	8
21779	do	do	Limestone	(2)	173	1.21	12.3	3.3	14.7	5
22426	do	do	Dolomite	(2)	176	.42	5.3	7.5	16.3	6
14988	Glenvar (1¼ miles south of)	do	do	(2)	176	.64	5.1	7.8	16.0	7
22678	Glenvar (near)	do	do	(2)	174	.46	5.0	8.0	17.0	7
1623	Roanoke	do	do	(2)	175	.54	3.4	11.8	16.3	13
1624	do	do	do	(2)	178	.55	3.4	11.8	16.6	14
1630	do	do	do	(2)	181	.47	6.1	6.6	17.6	7
5461	do	do	Dolomitic limestone	(2)	178	.14	3.9	10.3	18.3	11
19961	do	do	Dolomite	(2)	175	.43	3.0	13.3	15.3	11
3450	Starkey	do	Quartzite	(2)	162	.58	4.8	8.3	19.4	14
11549	Buena Vista (3 miles from)	Rockbridge	Limestone	(2)	176	.78	2.7	14.8	18.3	23
11550	do	do	Argillaceous limestone	(2)	173	.20	2.4	16.7	17.0	11
16223	Fairfield (1 mile southwest of)	do	Siliceous limestone	(2)	169	.26	5.0	8.0	13.3	17
13041	Glasgow	do	Limestone	(2)	170	.19	4.7	8.5	16.3	9
13042	Glasgow (near)	do	Argillaceous limestone	(2)	168	.20	6.4	6.2	12.7	17
13043	do	do	Quartzite	(2)	165	.20	3.0	13.3	(2)	(2)
5920	Greenlee	do	Dolomitic marble	36,900	178	.33	4.4	9.1	16.8	13
4848	Lexington	do	Limestone	(2)	168	.16	6.5	6.2	15.0	7
4849	do	do	do	(2)	168	.21	4.7	8.5	(2)	(2)
4850	do	do	do	(2)	168	.16	4.7	8.5	14.5	5
4858	do	do	Argillaceous limestone	(2)	168	.12	4.7	8.5	16.3	9
4859	do	do	do	(2)	168	.13	4.2	9.5	17.3	16
17929	Natural Bridge	do	Crystalline limestone	(2)	172	.24	5.2	7.7	12.7	5
17935	do	do	Argillaceous limestone	(2)	175	.09	4.4	9.1	18.0	11
14017	Timber Ridge	do	Siliceous dolomite	(2)	182	.32	2.8	14.3	17.9	12
15112	do	do	Siliceous limestone	(2)	177	.19	3.8	10.5	18.3	21
15113	do	do	do	(2)	175	.14	3.0	13.3	17.7	14
17092	(1)	do	Limestone	(2)	169	2.10	6.0	6.7	12.6	5
4600	Bluffs	Rockingham	do	(2)	168	.35	4.1	9.8	15.8	7
5382	do	do	do	21,450	168	.16	3.5	11.4	15.5	11

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
5385	Bluffs	Rockingham	Limestone	40,850	172	0.79	3.8	10.5	16.4	13
5700	Harrisonburg	do	Cherty sandstone	(2)	156	2.07	3.4	11.8	19.2	16
16513	do	do	Argillaceous limestone	(2)	169	.23	5.7	7.0	(2)	5
24522	do	do	Limestone	30,400	176	.07	4.6	8.7	17.0	6
8140	Mount Crawford	do	Dolomite	(2)	177	.41	2.5	16.0	17.8	24
6379	(1)	do	do	(2)	175	.08	1.8	22.2	16.8	17
6380	(1)	do	Limestone	(2)	168	.24	6.1	6.6	14.3	7
6534	(1)	do	Feldspathic sandstone	(2)	165	.54	2.4	16.7	18.7	14
6578	(1)	do	Calcareous sandstone	(2)	162	.65	3.7	10.8	18.6	9
3911	Blackford	Russell	Dolomite	(2)	178	.35	5.0	8.0	16.3	4
12789	Bolton	do	do	(2)	175	.22	3.3	12.1	16.7	21
3259	Castlewood	do	do	(2)	175	.40	2.4	16.7	16.7	13
3260	do	do	Limestone	(2)	172	.17	3.2	12.5	14.0	5
11719	do	do	do	(2)	171	.15	3.9	10.3	17.3	13
12788	Hansonville	do	Argillaceous dolomite	(2)	169	2.04	3.6	11.1	16.7	14
12840	Hansonville	do	Limestone	(2)	171	.21	5.8	6.9	15.3	8
4669	Honaker	do	Argillaceous sandstone	(2)	178	.09	4.0	10.0	15.7	8
4670	do	do	Limestone	(2)	172	.15	4.2	9.5	15.3	(2)
5375	Saint Paul (near)	do	do	17,600	168	.33	3.7	10.8	17.1	11
10930	Gate City	Scott	Argillaceous limestone	(2)	168	.38	4.1	9.8	16.0	13
20125	Pattonsville	do	Limestone	(2)	172	.23	3.8	10.5	14.0	6
21235	New Market	Shenandoah	Sandstone	(2)	167	.87	3.1	12.9	18.3	10
21234	New Market (2 miles east of)	do	do	(2)	159	.53	4.4	9.1	19.0	8
3008	Strasburg	do	Limestone	(2)	168	.19	5.1	7.8	15.5	4
3009	do	do	do	(2)	168	.39	5.6	7.1	15.2	4
3511	do	do	do	(2)	168	.13	5.3	7.5	16.0	5
3512	do	do	do	(2)	175	.22	4.2	9.5	16.0	5
20889	Strasburg Junction	do	do	(2)	172	.32	4.6	8.7	15.7	4
5820	Woodstock (3 miles east of)	do	Calcareous sandstone	(2)	168	.61	2.7	14.8	15.3	15
16011	Atkins	Smyth	Dolomite	(2)	173	.81	6.7	6.0	18.0	7
16110	do	do	Argillaceous limestone	(2)	173	.38	2.8	14.3	16.3	7
16262	do	do	Siliceous dolomite	(2)	174	.67	4.7	8.5	(2)	10
16507	do	do	do	(2)	167	9.02	5.6	7.1	(2)	9
16509	do	do	Dolomite	(2)	174	.74	5.8	6.9	(2)	7
16589	do	do	Limestone	(2)	169	.58	5.4	7.4	13.7	5
19083	do	do	Ferruginous sandstone	(2)	162	1.53	5.2	7.7	17.7	8 / [3] 15
19084	do	do	Argillaceous dolomite	(2)	177	.55	6.1	6.6	15.7	5
16508	Groseclose	do	do	(2)	173	1.41	9.0	4.4	(2)	5

7064	Marion	do	Limestone	(2)	168	.15	5.1	7.8	16.0	8
16289	do	do	Quartzite	(2)	162	1.28	4.5	8.9	(2)	(2)
5832	North Holston	do	Carbonaceous limestone	(2)	168	.24	4.0	10.0	16.3	15
5833	do	do	Feldspathic sandstone	(2)	168	.67	3.1	12.9	17.3	13
5885	do	do	Sandstone	(2)	162	.87	4.3	9.3	17.5	10
6240	do	do	do	(2)	(2)	(2)	(2)	(2)	1.0	4
6942	do	do	Argillaceous limestone	(2)	175	.88	4.0	10.0	16.0	16
16287	Sheffy (near)	do	Dolomite	(2)	172	.79	7.0	5.7	(2)	5
750	Fredericksburg	Spotsylvania	Oolitic limestone	(2)	175	1.46	5.5	7.3	(2)	(2)
3794	Spotsylvania (near)	do	Gneiss	(2)	165	.16	12.9	3.1	18.2	4
3795	do	do	do	(2)	165	.42	3.9	10.3	18.3	10
22272	do	do	Gneissoid granite	(2)	171	.47	6.0	6.7	17.0	5
7217	Burkes Garden	Tazewell	Dolomitic sandstone	21,500	175	.63	3.4	11.8	15.6	8
5854	Tazewell	do	Ferruginous sandstone	(2)	165	.96	2.7	14.8	18.7	19
3277	(1)	do	Dolomite	(2)	178	.26	3.4	11.8	17.1	19
6393	(1)	do	Feldspathic sandstone	(2)	162	1.42	2.4	16.7	16.9	6
6701	(1)	do	Ferruginous sandstone	(2)	181	1.99	4.2	9.5	15.6	5
11272	Front Royal	Warren	Limestone	(2)	171	.57	4.3	9.3	14.3	3
17853	Abingdon	Washington	Argillaceous limestone	(2)	171	.18	5.0	8.0	17.3	8
6250	Bristol	do	Cherty dolomite	(2)	175	.34	5.1	7.8	17.2	3
6251	do	do	Dolomite	(2)	178	.28	5.3	7.5	17.0	5
6272	do	do	Argillaceous limestone	(2)	175	.52	3.7	10.8	17.4	3
6273	do	do	Dolomite	(2)	178	.31	3.6	11.1	15.0	9
6274	do	do	Limestone	(2)	172	.34	4.4	9.1	16.6	8
6524	do	do	Siliceous limestone	(2)	168	.63	4.9	8.2	16.3	9
6525	do	do	Dolomite	(2)	178	.53	5.2	7.7	15.2	7
6571	do	do	Limestone	(2)	168	.15	4.6	8.7	14.8	8
5821	Damascus	do	Ferruginous sandstone	(2)	165	.74	3.6	11.1	18.7	8 (3) 27
5822	do	do	Travertine	(2)	168	.06	5.9	6.8	12.0	4
5823	do	do	Dolomite	(2)	172	1.20	4.1	9.8	16.3	11
5824	do	do	do	(2)	177	.44	6.4	6.2	17.3	4
23125	Glade Spring (near)	do	Argillaceous limestone	(2)	168	.40	5.3	7.5	16.7	6
23442	do	do	Siliceous limestone	(2)	170	.17	4.1	9.8	15.7	8
20013	Greendale (near)	do	Argillaceous limestone	(2)	167	.61	5.4	7.4	9.7	8
16021	Holston	do	do	(2)	168	.15	4.0	10.0	17.0	10
16075	do	do	Siliceous limestone	(2)	168	.58	5.7	7.0	17.3	8
16178	do	do	Argillaceous limestone	(2)	169	.55	6.4	6.2	10.0	6
1728	Meadowview	do	Limestone	(2)	172	.59	3.5	11.4	16.2	9
1729	do	do	Dolomitic limestone	(2)	175	.50	3.6	11.1	16.3	14
1923	do	do	Chert	(2)	175	.56	5.3	7.5	15.3	11
7725	do	do	Argillaceous limestone	(2)	175	.21	4.0	10.0	17.8	8
7726	do	do	do	(2)	153	.38	3.4	11.8	17.5	14
7537	Wallace	do	Limestone	(2)	175	.10	2.9	13.8	15.3	5
7538	do	do	Dolomitic limestone	(2)	175	.18	2.8	14.3	18.6	11
8227	do	do	Argillaceous limestone	(2)	172	.62	2.9	13.8	18.3	16
5120	Big Stone Gap	Wise	Limestone	(2)	165	1.28	4.8	8.3	15.8	6
6048	do	do	do	(2)	168	.58	4.0	10.0	10.5	7
6049	do	do	do	(2)	168	.27	3.5	11.4	15.7	7
6050	do	do	Dolomite	(2)	172	1.21	3.8	10.5	15.7	12
8345	do	do	Feldspathic sandstone	(2)	162	1.62	9.3	4.3	13.0	6

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
8399	Big Stone Gap	Wise	Sandstone	(2)	162	0.61	3.9	10.3	18.8	7
8578	do	do	Feldspathic sandstone	(2)	162	1.75	5.1	7.8	12.7	7
21080	do	do	Siliceous dolomite	(2)	169	2.00	2.9	13.8	15.7	14
19085	Coeburn (8 miles east of)	do	Feldspathic sandstone	(2)	163	1.59	4.2	9.5	14.3	11
18923	Esserville	do	Sandstone	(2)	155	2.01	5.3	7.5	16.0	6
18924	do	do	do	(2)	154	2.40	5.5	7.3	18.0	6
21045	Norton	do	do	(2)	156	2.42	5.3	7.5	16.3	11
21046	do	do	do	(2)	156	1.88	6.7	6.0	18.0	9
16421	Saint Paul	do	Argillaceous limestone	(2)	170	.17	4.9	8.2	(2)	5
19086	Saint Paul (5½ miles west of)	do	Feldspathic sandstone	(2)	160	2.16	4.6	8.7	14.7	8
10780	Wise	do	Sandstone	(2)	158	2.10	4.5	8.9	18.7	10
8344	(1)	do	Siliceous limestone	(2)	165	.44	3.6	11.1	18.3	13
5745	Ivanhoe	Wythe	Dolomitic marble	(2)	178	.16	5.3	7.5	15.8	16
22686	Max Meadows	do	Argillaceous limestone	(2)	165	1.26	4.5	8.9	18.3	12
16111	Rural Retreat	do	do	(2)	169	.23	4.7	8.5	16.7	7
6910	Speedwell	do	Dolomite	(2)	178	.28	5.5	7.3	16.1	9
21136	Wytheville (2 miles west of)	do	do	(2)	175	.16	2.6	15.4	17.3	15
8818	(1)	do	do	(2)	178	.49	4.0	10.0	16.2	10
8819	(1)	do	Argillaceous dolomite	(2)	178	.23	3.7	10.8	17.8	20
4034	(1)	(1)	Diabase	(2)	187	.35	2.1	19.0	18.5	21
9259	(1)	(1)	Sericite schist	(2)	168	.24	4.5	8.9	15.8	8

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4539	Lind	Adams	Basalt	(2)	184	0.24	2.2	18.2	18.3	14
4561	Asotin	Asotin	do	(2)	184	.12	2.3	17.4	18.0	20
4562	Rogersburg	do	Dolomitic marble	(2)	168	.14	7.5	5.3	(2)	(2)
4776	Prosser	Benton	Basalt	(2)	178	.17	2.2	18.2	18.4	11
4489	Cashmere (1¾ miles northwest of)	Chelan	Feldspathic sandstone	(2)	162	.73	6.4	6.2	(2)	(2)
4558	Columbia River (1½ miles north of)	do	Basalt	(2)	178	.18	(2)	(2)	19.0	20
4580	Leavenworth	do	Granodiorite	(2)	172	.40	7.0	5.7	17.0	4
4478	Vulcan (near)	do	Basalt	(2)	178	.15	2.0	20.0	18.0	17
4524	Wenatchee	do	Biotite gneiss	(2)	168	.21	5.2	7.7	(2)	(2)
4440	do	do	Altered rhyolite	(2)	143	2.16	(2)	(2)	(2)	(2)

2918	Fisher	Clarke	Olivine basalt	(2)	175	1.33	2.5	16.0	17.8	15
2919	do	do	do	(2)	168	1.88	2.9	13.8	17.8	13
4566	do	do	Basalt	(2)	178	.30	2.9	13.8	18.0	25
4451	Vancouver (near)	do	do	(2)	175	.66	3.0	13.3	19.3	19
4454	Yacolt (3 miles south of)	do	Altered basalt	(2)	175	.27	2.5	16.0	16.8	15
4488	Dayton	Columbia	Basalt	(2)	178	.36	2.8	14.3	18.2	16
4560	do	do	do	(2)	178	.56	2.3	17.4	17.7	21
4468	Carrolls (1½ miles northeast of)	Cowlitz	do	(2)	178	.10	3.3	12.1	17.3	6
4432	Castlerock	do	do	(2)	178	.42	5.2	7.7	17.4	11
4510	Kalama (½ mile south of)	do	do	(2)	175	.20	3.3	12.1	16.7	10
4520	Kalama (¾ miles south of)	do	do	(2)	175	.14	3.3	12.1	15.4	10
4442	Kalama (3 miles north of)	do	do	(2)	175	.27	3.2	12.5	16.8	15
2850	Kelso (3 miles from)	do	do	(2)	181	.17	3.2	12.5	18.8	21
4452	Kelso (1 mile south of)	do	Altered basalt	(2)	175	.83	3.9	10.3	14.3	7
4564	Kelso (2 miles north of)	do	Basalt	(2)	181	.12	3.8	10.5	18.0	10
4549	Stella	do	do	(2)	181	.23	2.8	14.3	17.2	16
4496	Stella (west of)	do	do	(2)	181	.27	(2)	(2)	18.3	22
4444	Stella (¾ mile east of)	do	do	(2)	168	1.77	2.5	16.0	18.5	14
4559	(1)	do	do	(2)	184	.11	1.9	21.1	18.0	22
4436	(1)	do	do	(2)	187	.29	2.4	16.7	18.8	13
4481	Curlew	Ferry	Altered andesite	(2)	165	.64	3.1	12.9	17.9	18
4506	Curlew (9 miles west of)	do	Biotite granite	(2)	168	.23	4.4	9.1	18.1	8
4518	Curlew (4 miles northeast of)	do	Impure limestone	(2)	178	.34	6.3	6.3	(2)	(2)
4537	Curlew (4 miles west of)	do	Augite diorite	(2)	175	.25	3.6	11.1	17.5	10
4429	Danville (½ mile southwest of)	do	Altered andesite	(2)	165	1.66	2.9	13.8	18.5	17
4516	Danville (¾ mile south of)	do	Serpentine	(2)	168	.32	6.7	6.0	(2)	(2)
4459	Keller (8½ miles north of)	do	Altered hornblende andesite	(2)	168	.14	3.0	13.3	18.3	13
4779	Keller (near)	do	Granodiorite	(2)	168	.35	3.9	10.3	17.9	12
4542	Laurier (¾ mile south of)	do	Granite	(2)	162	.29	5.3	7.5	18.5	4
4433	Republic (north of)	do	Limestone	(2)	172	.30	6.6	6.1	17.0	5
4509	Republic (5 miles west of)	do	Crystalline limestone	(2)	168	.14	8.9	4.5	14.3	4
4548	Republic (10½ miles south)	do	Andesite	(2)	165	.27	6.5	6.2	(2)	(2)
4565	Republic (1½ miles northeast of)	do	Vitreous basalt	(2)	159	.13	5.1	7.8	(2)	(2)
4553	Kahlotus (¾ mile east of)	Franklin	Basalt	(2)	178	.16	2.9	13.8	17.6	16
4473	Adrian	Grant	do	(2)	181	.31	2.7	14.8	18.0	13
4480	Bacon	do	do	(2)	175	.52	2.7	14.8	18.1	17
4550	Coulee	do	do	(2)	178	.20	2.1	19.0	18.5	22
4531	Coulee (1¼ miles northwest of)	do	do	(2)	184	.30	2.1	19.0	18.3	21
4555	Ephrata (3 miles southwest of)	do	do	(2)	184	.14	2.5	16.0	(2)	(2)
4769	Hoquiam	Grays Harbor	do	(2)	178	.37	2.2	18.2	18.2	27
2145	Whibley Island	Island	Green sandstone	(2)	172	2.53	(2)	(2)	9.5	7
4466	Duckabush (2 miles south of)	Jefferson	Altered basalt	(2)	181	.34	4.5	8.9	12.0	6
4556	Pleasant Harbor	do	Basalt	(2)	181	.17	2.9	13.8	(2)	(2)
4569	Port Ludlow (near)	do	Altered basalt	(2)	178	.29	3.8	10.5	(2)	(2)
4498	Quilcene	do	do	(2)	181	.15	3.4	11.8	18.0	21
4435	Earlington	King	Altered andesite	(2)	156	3.07	4.5	8.9	13.8	12
6581	Enumclaw	do	Altered basalt	(2)	168	1.73	5.0	8.0	8.8	9
2142	Franklin	do	do	(2)	168	3.04	3.7	10.8	16.6	9
4783	Halford	do	Granodiorite	(2)	168	.17	4.1	9.8	18.1	9
4577	North Bend (1 mile northwest of)	do	Altered andesite	(2)	172	.22	2.9	13.8	17.5	23
4773	Quarry	do	Altered basalt	(2)	165	.36	2.8	14.3	16.8	18

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

WASHINGTON—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
4563	Scenic	King	Granodiorite	(2)	172	0.19	(2)	(2)	18.8	
476	Seattle	do	Quartzite	(2)	168	.58	2.2	18.2	(2)	(2)
477	do	do	Basalt	(2)	184	1.80	2.0	20.0	(2)	(2)
2140	Seattle (8 miles south of)	do	do	(2)	159	4.56	3.5	11.4	16.4	13
2207	Seattle (near)	do	do	(2)	159	5.45	3.0	13.3	15.8	14
4479	Veazy (south of)	do	Diabase	(2)	172	.55	3.2	12.5	17.0	11
4574	Charleston (2½ miles southwest of)	Kitsap	do	(2)	181	.15	3.3	12.1	17.3	16
2144	Port Orchard (near)	do	Basalt	(2)	181	2.50	(2)	(2)	15.6	9
4772	Easton	Kittitas	Altered syenite	(2)	159	1.28	1.6	25.0	(2)	(2)
4771	Indio	do	Basalt	(2)	175	.64	2.1	19.0	18.0	23
4780	Kountze	do	do	(2)	178	.42	2.3	17.4	18.4	27
4790	Roza	do	do	(2)	178	.80	1.7	23.5	17.7	32
4768	(1)	do	do	(2)	181	.30	2.1	19.0	18.8	20
4504	Cliffs	Klickitat	Olivine basalt	(2)	184	.12	2.6	15.4	18.0	18
4484	Lyle	do	Basalt	(2)	184	.12	(2)	(2)	17.7	19
4434	Lyle (1 mile east of)	do	do	(2)	175	.43	3.4	11.8	17.2	13
4490	White Salmon	do	do	(2)	175	.29	2.6	15.4	18.7	40
2143	Chehalis (12 miles west of)	Lewis	do	(2)	178	1.78	2.8	14.3	17.9	14
4789	Meskill	do	do	(2)	178	.27	2.3	17.4	15.3	17
4430	Almira (¾ mile northeast of)	Lincoln	do	(2)	181	.61	1.9	21.1	18.2	20
4576	Almira, (1½ miles south of)	do	do	(2)	181	.48	2.9	13.8	18.2	24
4457	Davenport (3½ miles northwest of)	do	do	(2)	181	.45	3.1	12.9	18.3	20
4528	Davenport (2 miles northwest of)	do	do	(2)	178	.35	3.2	12.5	13.3	8
4425	Govan	do	do	(2)	181	.73	2.1	19.0	18.9	21
4443	Sprague (1 mile south of)	do	do	(2)	184	.20	2.2	18.2	17.0	20
4538	Wilbur	do	do	(2)	175	1.09	3.4	11.8	(2)	(2)
4579	Wilbur (2 miles northeast of)	do	do	(2)	181	.79	1.7	23.5	18.3	20
4507	Hamma Hamma	Mason	Altered basalt	(2)	178	.67	4.2	9.5	13.8	7
4483	Lilliwaup	do	Andesite breccia	(2)	156	2.62	4.1	9.8	13.1	9
4578	Molson	Okanogan	Dolomitic marble	(2)	178	.25	(2)	(2)	16.3	5
4527	Nighthawk	do	Diorite	(2)	184	.24	4.0	10.0	(2)	(2)
4486	Oroville (1½ miles south of)	do	Marble	(2)	175	.50	8.3	4.8	(2)	(2)
4502	Oroville (2 miles north of)	do	Altered hornblende andesite	(2)	165	.88	2.5	16.0	19.1	18
4511	Holcomb	Pacific	Basalt tuff	(2)	143	4.87	4.1	9.8	5.7	6
4784	Ilwaco	do	Altered basalt	(2)	150	.83	4.8	8.3	12.3	10
4793	do	do	Basalt	(2)	159	2.13	5.1	7.8	11.0	10
4581	Mill Ranch (near)	do	Diabase	(2)	187	.22	(2)	(2)	(2)	(2)
4497	Raymond (1½ miles northwest of)	do	Micaceous sandstone	(2)	159	2.40	4.9	8.2	4.4	6
4073	South Bend	do	Basaltic andesite	(2)	162	4.90	5.9	6.8	15.4	11

4417	do	do	Altered basalt	(2)	175	1.29	4.3	9.3	13.2	15
4431	South Bend (north of)	do	Basalt	(2)	181	.57	2.9	13.8	16.6	6
4525	South Bend (near)	do	Altered basalt	(2)	178	.35	4.0	10.0	13.7	8
4543	South Bend (1 mile south of)	do	Basalt	(2)	175	1.68	3.7	10.8	17.5	10
4546	South Bend (north of)	do	do	(2)	178	.65	3.9	10.3	13.7	8
4523	Camden (1½ miles northeast of)	Pend Oreille	Granodiorite	(2)	172	0.26	5.0	8.0	18.2	8
4441	Newport (5 miles northwest of)	do	Altered granite porphyry	(2)	165	.83	2.0	20.0	18.7	19
4463	Newport (1½ miles north of)	do	Micaceous sandstone	(2)	168	.75	3.0	13.3	18.3	(2)
4461	Ruby	do	Biotite granite	(2)	168	.29	3.4	11.8	18.8	6
4570	Scotia	do	Granite	(2)	165	.26	6.2	6.5	19.0	7
4467	do	do	Hornblende granite	(2)	168	.53	6.1	6.6	18.0	8
4482	Wolfred (1½ miles north of)	do	Altered rhyolite	(2)	168	.51	2.6	15.4	18.7	6
4439	Elbe	Pierce	Augite andesite	(2)	165	.36	4.1	9.8	18.4	9
4534	do	do	Basaltic andesite	(2)	165	.18	6.6	6.1	(2)	(2)
6619	Electron	do	Diorite	(2)	168	.76	2.3	17.4	18.5	20
4469	La Grande	do	Altered andesite	(2)	168	.11	2.2	18.2	19.2	35
4575	Ohop	do	do	(2)	153	.36	3.7	10.8	17.7	18
2123	Tacoma (25 miles southeast of)	do	Altered diabase	(2)	172	1.70	4.0	10.0	17.7	19
4470	Friday Harbor	San Juan	Limestone	(2)	172	.17	2.8	14.3	18.0	19
20886	Lopez Island	do	Volcanic sandstone	(2)	(2)	(2)	3.0	13.3	19.3	(2)
4505	Olga (Orcas Island)	do	Altered andesite	(2)	184	.07	4.2	9.5	17.3	19
4426	Richardson (Lopez Island)	do	do	(2)	181	.27	2.5	16.0	18.3	24
4568	Waldron Island	do	Feldspathic sandstone	(2)	162	.66	3.1	12.9	13.2	8
4782	Burlington	Skagit	Slate	(2)	172	.21	(2)	(2)	11.3	6
4787	do	do	Altered basalt	(2)	187	.02	2.9	13.8	18.7	30
4438	Clearlake	do	Altered diabase	(2)	184	.15	2.1	19.0	18.0	20
508	Goat Island	do	Chlorite schist	(2)	165	1.04	3.6	11.1	(2)	(2)
4460	Grassmere (1 mile west of)	do	Altered diabase	(2)	184	.22	3.4	11.8	19.3	20
4471	Rockport	do	Altered andesite	(2)	184	.11	10.6	3.8	16.5	18
20882	Sinclair Islet	do	Altered basalt	(2)	(2)	(2)	4.6	8.7	13.7	(2)
20884	do	do	do	(2)	(2)	(2)	3.7	10.8	16.0	(2)
2141	(1)	do	Feldspathic sandstone	(2)	168	.81	2.5	16.0	18.5	13
4474	Cook	Skamania	Basalt	(2)	175	.98	2.3	17.4	18.2	13
10239	Cook (3 miles north of)	do	do	(2)	177	.92	2.6	15.4	18.3	24
8332	Willard	do	Olivine basalt	(2)	168	.91	7.7	5.2	(2)	(2)
3190	Everett	Snohomish	Altered gabbro	(2)	178	.89	3.6	11.1	17.2	13
3188	Granite Falls (near)	do	Altered peridotite	(2)	172	1.02	5.3	7.5	13.3	9
3189	do	do	Altered gabbro	(2)	172	.76	5.2	7.7	16.2	10
4458	Granite Falls (1¼ miles northeast of)	do	Altered diorite	(2)	168	.42	2.7	14.8	18.7	17
4485	Granite Falls (1 mile east of)	do	Serpentine	(2)	165	.38	8.0	5.0	(2)	(2)
4499	Granite Falls (1 mile northeast of)	do	Diorite	(2)	168	.43	3.2	12.5	18.3	17
4778	Index	do	Grano-diorite	(2)	168	.23	3.1	12.9	17.6	9
4794	Monroe (6 miles south of)	do	Altered andesite	(2)	165	.74	4.3	9.3	15.0	8
4464	Monte Christo	do	do	(2)	172	.12	2.3	17.4	18.3	12
4544	Cheney (1 mile northeast of)	Spokane	Altered basalt	(2)	181	.20	(2)	(2)	17.7	10
4567	Colbert	do	Biotite granite	(2)	162	.59	10.4	3.8	18.3	8
4532	Dart	do	Basalt	(2)	175	.65	2.0	20.0	17.7	19
4453	Elk	do	Weathered granite	(2)	165	.26	4.2	9.5	18.7	8

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

WASHINGTON—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
4465	Highland	Spokane	Basalt	(2)	175	.90	3.0	13.3	17.9	(2)
4446	Hillyard (1 mile north of)	do	Biotite granite	(2)	168	.29	4.0	10.0	18.8	7
4545	do	do	Basalt	(2)	168	1.22	2.5	16.0	18.8	24
4445	Marshall	do	do	(2)	178	.62	2.2	18.2	18.5	30
4536	do	do	do	(2)	181	.30	(2)	(2)	18.0	12
4492	Marshall (1½ miles northeast of)	do	do	(2)	175	.63	(2)	(2)	19.0	24
4513	Medical Lake	do	Biotite granite	(2)	165	.28	4.3	9.3	18.3	8
4521	Medical Lake (1 mile east of)	do	do	(2)	168	.29	3.0	13.3	18.3	11
4526	Medical Lake (1½ miles east of)	do	Basalt	(2)	184	.19	3.0	13.3	(2)	(2)
4447	Milan	do	Altered granite porphyry	(2)	168	.61	3.2	12.5	(2)	(2)
4495	Spokane (4 miles south of)	do	Basalt	(2)	184	.63	(2)	(2)	17.2	13
4477	Wayside	do	do	(2)	175	.23	1.5	26.7	18.2	35
4487	(1)	do	Biotite granite	(2)	168	.31	13.8	2.9	(2)	(2)
4557	Addy	Stevens	Altered granite porphyry	(2)	168	.20	3.0	13.3	18.7	18
4475	Addy (1 mile north of)	do	Quartzite	(2)	165	.09	2.8	14.3	(2)	(2)
4519	Arden (1½ miles southeast of)	do	Biotite granite	(2)	168	.38	5.2	7.5	18.1	4
4501	Bluecreek (1½ miles west of)	do	Serpentine	(2)	159	.03	8.8	4.5	(2)	(2)
4571	Bluecreek	do	Altered gabbro	(2)	190	.12	2.7	14.8	18.3	17
4462	Barstow (near)	do	Dolomitic marble	(2)	175	.68	5.6	7.1	17.1	7
4448	Bossburg	do	Marble	(2)	168	.39	5.4	7.4	12.0	6
4424	Bossburg (7 miles from)	do	Slate	(2)	165	1.17	(2)	(2)	(2)	(2)
4427	Bossburg (8 miles east of)	do	Feldspathic sandstone	(2)	140	5.42	7.6	5.3	13.1	9
4541	Chewelah (1½ miles northeast of)	do	Dolomitic marble	(2)	178	.34	4.2	9.5	14.8	11
4551	Colville (2½ miles north-northwest of)	do	Ferruginous sandstone	(2)	153	.31	(2)	(2)	(2)	(2)
4449	Evans	do	Marble	(2)	168	2.19	5.4	7.4	14.7	3
4450	Kettle Falls (1 mile northeast of)	do	Altered diabase	(2)	172	.45	2.9	13.8	16.1	12
4493	Loon Lake	do	Granodiorite	(2)	168	.38	3.9	10.3	18.7	8
4455	Marcus	do	Chlorite-epidote schist	(2)	175	.38	5.6	7.1	(2)	(2)
4515	Meyers Falls	do	Volcanic ash	(2)	172	.11	2.8	14.3	16.9	23
4522	do	do	Calcareous quartzite	(2)	165	.29	4.0	10.0	(2)	(2)
4785	Northport	do	Marble	(2)	168	.12	4.9	8.2	12.4	6
4535	Springdale	do	Basalt	(2)	175	.77	2.4	16.7	(2)	(2)
4572	Springdale (1 mile north of)	do	Siliceous dolomite	(2)	175	.22	3.8	10.5	(2)	(2)
4476	Valley (4½ miles west of)	do	Basalt	(2)	175	.58	2.6	15.4	17.3	12
4533	do	do	Granodiorite	(2)	172	.45	12.0	3.3	(2)	(2)
4540	(1)	do	Marble	(2)	172	.31	4.8	8.3	12.0	5
4517	Gate (1½ miles north of)	Thurston	Altered basalt	(2)	175	.57	4.1	9.8	11.2	7
4547	Gate (3 miles northwest of)	do	Altered gabbro	(2)	172	.15	5.9	6.8	13.3	8

4554	Gate (1½ miles northwest of)	do	Basalt	(2)	181	.11	3.6	11.1	11.0	5
4573	Olympia	do	do	(2)	190	.10	2.5	16.0	18.7	14
4437	Tumwater	do	Olivine basalt	(2)	184	.20	2.3	17.4	17.7	20
4508	Cathlamet (northeast of)	Wahkiakum	Basalt	(2)	168	.47	2.9	13.8	17.4	9
4530	do	do	do	(2)	181	.22	1.9	21.1	17.7	24
4552	Cathlamet	do	do	(2)	175	.30	3.1	12.9	17.8	11
4514	Skamokawa	do	do	(2)	175	.41	2.2	18.2	18.4	23
4500	Dixie	Walla Walla	do	(2)	181	.39	2.7	14.8	17.2	6
4472	Touchet	do	do	(2)	172	.42	3.2	12.5	18.0	6
1028	Bellingham	Whatcom	Feldspathic quartzite	(2)	175	.19	2.5	16.0	18.2	23
4770	Deming	do	Feldspathic sandstone	(2)	153	2.81	8.2	4.9	8.3	5
4775	Kendall	do	Marble	(2)	172	.20	4.9	8.2	12.3	7
1023	Saar Creek	do	Altered diabase	(2)	168	.53	3.2	12.5	17.6	17
4774	Wickersham	do	Sericite schist	(2)	163	.47	23.3	1.7	(2)	(2)
4781	do	do	Feldspathic sandstone	(2)	162	.93	15.9	2.5	9.2	5
1024	(1)	do	Altered diabase	(2)	190	2.73	4.9	8.2	12.8	4
4777	(1)	do	Feldspathic sandstone	(2)	156	2.03	8.3	4.8	(2)	(2)
1272	Colfax	Whitman	Basalt	(2)	181	1.11	2.0	20.0	17.8	22
4529	Palouse	do	do	(2)	184	.11	2.3	17.4	18.2	22
1735	Pullman	do	do	(2)	184	.92	2.5	16.0	17.7	10
4503	Pullman (1 mile south of)	do	Altered basalt	(2)	181	.15	2.3	17.4	(2)	(2)
4491	Rosalia (1 mile southeast of)	do	Basalt	(2)	175	.29	2.7	14.8	17.6	26
4494	Steptoe	do	Quartzite	(2)	165	.40	5.2	7.7	18.7	9
4456	Winona	do	Basalt	(2)	181	.15	2.5	16.0	19.0	25
4428	North Yakima	Yakima	do	(2)	181	.34	2.5	16.0	18.0	19
4512	do	do	do	(2)	181	.08	3.0	13.3	17.5	16
4582	(1)	(1)	do	(2)	178	.27	2.2	18.2	(2)	(2)
4583	(1)	(1)	do	(2)	172	.35	2.2	18.2	17.7	22
4584	(1)	(1)	do	(2)	181	.26	3.6	11.1	16.8	14
4585	(1)	(1)	do	(2)	181	.24	2.5	16.0	18.5	25
4786	(1)	(1)	Granodiorite	(2)	175	.09	3.5	11.4	17.8	11
4788	(1)	(1)	Basalt	(2)	175	.07	2.7	14.8	17.7	25
4791	(1)	(1)	Altered andesite	(2)	178	.20	3.9	10.3	17.2	21
4792	(1)	(1)	Augite andesite	(2)	175	.11	2.0	20.0	19.2	38

WEST VIRGINIA

13886	Belington	Barbour	Sandstone	(2)	147	2.50	7.7	5.2	17.3	7
3030	Philippi	do	do	(2)	156	1.41	6.6	6.1	16.1	8
3106	do	do	do	(2)	156	3.38	4.8	8.3	6.4	5
3108	do	do	Limestone	(2)	172	1.34	3.6	11.1	16.8	17
3073	(1)	do	Sandstone	(2)	159	.84	4.2	9.5	18.8	9
10068	Bedington (east of)	Berkeley	Argillaceous limestone	(2)	172	.19	4.9	8.2	16.0	10
10075	do	do	do	(2)	168	.32	5.6	7.1	(2)	(2)
5365	Berkeley	do	Limestone	23,350	168	.21	4.6	8.7	16.0	7
10066	do	do	do	(2)	168	.27	6.3	6.3	16.0	4
21224	do	do	Siliceous dolomite	59,200	176	.11	3.4	11.8	17.3	19
10084	Blairton	do	Limestone	(2)	168	.23	5.9	6.8	16.3	5

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

WEST VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
10065	Blairton (near)	Berkeley	Argillaceous limestone	(2)	168	0.19	5.1	7.8	16.7	6
10070	Bunker Hill	do	Limestone	(2)	168	.24	5.1	7.8	16.0	4
10085	Cumbo (near)	do	do	(2)	172	.52	4.6	8.7	16.7	4
10077	Darkesville	do	do	(2)	168	.31	5.0	8.0	15.0	4
10079	Falling Water	do	do	(2)	168	1.27	4.7	8.5	16.7	8
10083	do	do	Chert and limestone	(2)	(2)	(2)	4.7	8.5	(2)	(2)
10082	Falling Water (near)	do	Limestone	(2)	168	.59	5.6	7.1	(2)	(2)
10074	Gerrardstown	do	Argillaceous limestone	(2)	172	.46	6.5	6.2	15.7	[3] 15 9
10073	Hedgesville (west of)	do	Feldspathic sandstone	(2)	165	.62	2.8	14.3	16.7	[3] 22 15
10062	Inwood (near)	do	Sandstone	(2)	144	3.19	16.6	2.4	19.3	2
10067	Jones Spring	do	Siliceous limestone	(2)	168	.31	4.4	9.1	17.3	9
10081	do	do	Crystalline limestone	(2)	168	.37	5.7	7.0	14.0	4
10080	Little Georgetown	do	Argillaceous limestone	(2)	175	.37	6.5	6.2	18.7	10
2488	Martinsburg	do	Limestone	(2)	168	.26	4.8	8.3	16.7	4
2606	do	do	do	(2)	168	.11	4.1	9.8	15.7	8
2607	do	do	do	(2)	168	.20	4.2	9.5	16.4	4
3074	do	do	do	(2)	172	.12	3.5	11.4	16.4	10
5893	do	do	Siliceous limestone	(2)	168	.33	3.5	11.4	15.8	10
7369	do	do	Dolomite	(2)	178	.26	2.5	16.0	17.3	13
8504	do	do	Limestone	(2)	168	.70	5.4	7.4	13.7	6
10102	do	do	do	(2)	(2)	(2)	5.2	7.7	16.7	6
14263	do	do	do	(2)	169	.15	(2)	(2)	14.7	6
14266	do	do	do	(2)	169	.09	7.3	5.5	14.0	3
11708	do	do	do	(2)	170	.19	5.9	6.8	14.0	3
14265	do	do	do	(2)	170	.09	9.0	4.4	14.7	3
19691	do	do	Dolomite	(2)	173	.58	4.9	8.2	17.3	8
20476	do	do	Limestone	(2)	171	.58	(2)	(2)	14.7	4
21271	do	do	Argillaceous dolomite	29,720	176	.26	4.0	10.0	17.0	9
21280	do	do	Siliceous limestone	(2)	175	.21	3.1	12.9	16.7	16
21281	do	do	Siliceous dolomite	(2)	177	.19	3.1	12.9	(2)	(2)
24435	do	do	do	(2)	(2)	(2)	5.6	7.1	(2)	(2)
28141	do	do	Limestone	(2)	173	.14	4.0	10.0	16.7	17
28142	do	do	do	(2)	173	.24	4.0	10.0	16.0	13
28143	do	do	do	(2)	174	.09	3.9	10.3	17.3	15
28144	do	do	do	(2)	171	.15	4.2	9.5	15.3	12
28145	do	do	Argillaceous limestone	(2)	171	.09	4.4	9.1	16.7	15
28146	do	do	Limestone	(2)	172	.10	4.4	9.1	15.3	10

28147	do	do	do	(2)	174	.15	3.7	10.8	16.7	14
28148	do	do	do	(2)	172	.05	4.0	10.0	16.7	11
28149	do	do	do	(2)	172	.05	3.9	10.3	16.7	16
30294	do	do	do	(2)	167	.73	8.1	4.9	15.3	6
30702	do	do	do	(2)	170	.03	7.4	5.4	17.3	6
10064	Martinsburg (south of)	do	Dolomite	(2)	178	.31	3.6	11.1	16.3	10
10086	do	do	Limestone	(2)	168	.56	5.8	6.9	18.0	5
10071	Nipetown	do	do	(2)	168	.43	4.9	8.2	16.0	3
10072	Spring Mills	do	do	(2)	168	.27	4.2	9.5	15.0	4
10078	Tomahawk	do	Siliceous limestone	(2)	168	.27	4.5	8.9	18.3	15
10087	Tomahawk (north of)	do	Sandstone	(2)	156	1.66	7.9	5.1	(2)	(2)
10076	Van Clevesville (south of)	do	Argillaceous limestone	(2)	168	.36	5.0	8.0	17.0	9
8153	(1)	do	do	(2)	168	.34	4.1	9.8	15.7	3
8154	(1)	do	do	(2)	178	.17	2.8	14.3	17.2	17
10063	(1)	do	Limestone	(2)	168	.61	6.2	6.5	14.0	4
10069	(1)	do	Feldspathic sandstone	(2)	140	3.45	7.2	5.6	18.7	[3] 6 14
3165	Peytona	Boone	Sandstone	(2)	159	1.99	3.4	11.8	16.8	12
3102	Gassaway	Braxton	do	(2)	156	4.65	3.5	11.4	12.7	10
4645	Sutton	do	Feldspathic sandstone	(2)	156	3.07	17.9	2.2	17.8	5
3107	Wellsburg	Brooke	Limestone	(2)	168	.56	3.1	12.9	(2)	(2)
1777	Huntington	Cabell	Sandstone	(2)	162	2.32	9.5	4.2	.0	6
1884	do	do	Dolomitic limestone	(2)	165	1.40	4.4	9.1	15.2	8
1885	do	do	Limestone	(2)	165	1.14	5.4	7.4	11.0	9
2417	do	do	Feldspathic sandstone	(2)	159	3.43	7.4	5.4	14.7	6
2418	do	do	Calcareous sandstone	(2)	162	1.41	4.9	8.2	15.7	7
2485	do	do	Weathered sandstone	(2)	156	3.18	28.4	1.4	12.2	2
3021	do	do	Altered sandstone	(2)	147	2.60	41.7	1.0	(2)	(2)
3029	do	do	Calcareous sandstone	(2)	165	.99	3.3	12.1	14.2	6
3034	Bigbend	Calhoun	do	(2)	165	1.48	(2)	(2)	16.7	9
3003	(1)	Doddridge	Sandstone	(2)	156	3.25	13.5	3.0	11.3	5
14358	Kingston	Fayette	Feldspathic sandstone	(2)	156	3.06	9.3	4.3	14.3	9
10511	Scherr	Grant	Argillaceous limestone	(2)	166	.60	5.4	7.4	(2)	(2)
3022	Alvon	Greenbrier	Cherty limestone	(2)	168	.41	7.1	5.6	(2)	(2)
3026	do	do	Sandstone	(2)	159	1.09	2.5	16.0	18.0	6
9972	Fort Spring	do	Limestone	(2)	168	.24	4.1	9.8	15.7	9
5918	Frazier	do	do	17,450	172	.26	3.7	10.8	(2)	(2)
3069	Organ Cave	do	do	(2)	168	.26	4.1	9.8	15.8	8
5917	Renick	do	Crystalline limestone	21,300	168	.16	3.7	10.8	16.8	8
9925	do	do	Argillaceous limsestone	(2)	168	.66	3.8	10.5	16.3	8
11915	Ronceverte	do	Limestone	(2)	168	.18	4.3	9.3	16.7	11
5919	Snow Flake	do	do	13,550	168	1.03	5.5	7.3	(2)	(2)
11715	White Sulphur Springs	do	Feldspathic sandstone	(2)	164	.84	3.2	12.5	18.3	14
11763	do	do	do	(2)	165	.82	3.0	13.3	18.7	14
7417	Green Spring (1½ miles southeast of)	Hampshire	Siliceous limestone	(2)	165	.25	2.1	19.0	17.9	10
7418	do	do	Quartzite	(2)	159	.75	3.5	11.4	19.5	13
3427	Ridgedale	do	Limestone	(2)	168	.32	3.5	11.4	16.8	9
3428	do	do	do	(2)	168	.39	3.5	11.4	16.3	10
17866	Wardensville	Hardy	do	(2)	170	.15	4.9	8.2	13.3	4
5948	Clarkesburg	Harrison	Argillaceous limestone	(2)	172	.87	3.5	11.4	16.5	16
15486	do	do	Feldspathic sandstone	(2)	154	4.34	4.7	8.5	10.0	8

[1] Exact location not known. [2] Test not made. [3] Tests made on specimens drilled at different angles with bedding plane.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

WEST VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
3027	Lost Creek	Harrison	Sandstone	(2)	153	5.22	6.8	5.9	9.5	4
3031	Ripley (near)	Jackson	do	(2)	156	3.60	5.0	8.0	6.4	7
3103	Silverton	do	do	(2)	156	4.02	6.3	6.3	.0	4
3000	Union District (township)	do	do	(2)	156	3.54	9.6	4.2	4.5	4
5741	Charlestown	Jefferson	Limestone	(2)	168	.19	4.1	9.8	16.8	7
2489	Engle	do	do	(2)	168	.30	4.5	8.9	11.8	4
8876	do	do	Argillaceous limestone	(2)	168	.24	6.8	5.9	14.5	3
2490	Kearneysville	do	Limestone	(2)	172	.63	4.2	9.5	14.7	5
2589	do	do	do	(2)	168	.22	3.9	10.3	14.3	6
10103	do	do	do	(2)	(2)	(2)	2.7	14.8	14.0	6
15988	do	do	do	(2)	(2)	(2)	4.8	8.3	(2)	(2)
16209	do	do	Argillaceous limestone	(2)	169	.12	4.6	8.7	14.7	6
3025	Middleway District (township)	do	Limestone	(2)	168	.72	4.0	10.0	15.8	10
2634	Millville	do	Dolomite	(2)	178	.29	3.7	10.8	16.6	6
2579	do	do	Dolomitic limestone	(2)	175	.74	4.4	9.1	14.3	7
11609	do	do	Dolomite	(2)	177	.40	4.5	8.9	16.7	6
26657	do	do	do	(2)	178	.04	4.0	10.0	16.7	9
28735	do	do	do	(2)	178	.30	4.6	8.7	14.7	9
29355	do	do	do	(2)	177	.27	4.5	8.9	14.7	11
3032	Summit Point	do	Dolomitic limestone	(2)	175	.32	2.9	13.8	17.5	22
3023	Blakely	Kanawha	Siliceous slate	(2)	162	.88	4.8	8.3	19.7	30
2969	Kendalia	do	Feldspathic sandstone	(2)	159	3.37	6.6	6.1	15.8	6
2965	Saint Albans	do	Limestone	(2)	168	.54	4.9	8.2	16.4	4
12728	Sattes	do	Feldspathic sandstone	(2)	155	4.67	4.6	8.7	3.0	6
13706	Sissonville (near)	do	do	(2)	157	3.88	12.2	3.3	12.0	7
6109	Springhill	do	Sandstone	12,400	159	1.96	14.6	2.7	12.1	4
3070	Tornado	do	do	(2)	156	3.94	8.8	4.5	.0	4
3072	(1)	do	do	(2)	159	2.52	11.0	3.6	14.6	4
3238	Camden	Lewis	Limestone	(2)	168	1.40	(2)	(2)	16.7	15
3104	Weston	do	Sandstone	(2)	165	2.30	4.1	9.8	9.9	7
13908	Hamlin	Lincoln	do	(2)	153	4.98	8.7	4.6	12.0	5
13992	Hamlin (near)	do	Feldspathic sandstone	(2)	156	3.90	8.6	4.7	3.3	3
2972	Chapmanville	Logan	do	(2)	159	2.56	6.4	6.2	13.2	5
3237	Kitchen	do	Sandstone	(2)	159	2.83	2.6	15.4	8.3	8
14625	Logan	do	Calcareous sandstone	(2)	169	.86	7.5	5.3	13.3	7
2997	Berwind	McDowell	Sandstone	(2)	162	2.16	4.2	9.5	16.8	9
2974	Elkhorn	do	Ferruginous sandstone	(2)	156	2.37	4.3	9.3	14.9	10
3066	Gary	do	Feldspathic sandstone	(2)	162	1.61	3.3	12.1	16.0	8
2088	Northfork	do	do	(2)	165	.82	3.0	13.3	15.5	8

4622	Welch (3 miles from)	do	do	(2)	165	3.53	4.2	9.5	15.0	8
4760	Fairmont	Marion	Argillaceous sandstone	(2)	165	2.44	4.5	8.9	12.0	14
7493	do	do	Argillaceous limestone	(2)	(2)	(2)	3.4	11.8	17.5	10
7785	do	do	do	(2)	168	.47	4.3	9.3	16.8	7
7833	do	do	Ferruginous sandstone	(2)	156	2.39	4.8	8.3	5.3	8
7834	do	do	Argillaceous limestone	(2)	168	.50	3.9	10.3	17.2	11
8854	do	do	do	(2)	170	.29	3.4	11.8	16.2	9
7494	Mannington District (township)	do	Feldspathic sandstone	(2)	(2)	(2)	7.8	5.1	11.8	5
13396	Rivesville	do	Limestone	(2)	162	.50	4.3	9.3	16.0	9
2976	Point Pleasant	Mason	Feldspathic sandstone	(2)	150	5.30	(2)	(2)	.0	6
2967	Union District (township)	do	do	(2)	153	4.52	8.3	4.8	.0	5
2095	Bluefield	Mercer	Limestone	(2)	165	1.60	4.3	9.3	(2)	(2)
2970	do	do	do	(2)	168	.51	3.3	12.1	16.8	11
16384	Princeton	do	Sandstone	(2)	156	2.80	3.9	10.3	(2)	8
7740	Princeton (1¼ miles from)	do	Argillaceous limestone	(2)	168	.19	7.3	5.5	(2)	(2)
7764	Princeton (near)	do	Calcareous sandstone	(2)	168	.28	5.8	6.9	13.4	15
8746	do	do	do	(2)	165	1.21	3.7	10.8	17.0	11
7735	(1)	do	Feldspathic sandstone	(2)	162	1.35	(2)	(2)	13.2	7
2472	Keyser	Mineral	Limestone	(2)	168	.35	4.0	10.0	(2)	(2)
3350	Patterson Creek	do	do	(2)	168	.22	4.1	9.8	18.8	13
3351	do	do	do	(2)	165	.19	2.3	17.4	18.8	23
7830	Williamson	Mingo	Feldspathic sandstone	(2)	162	2.47	5.3	7.5	7.0	6
3033	Daybrook	Monongalia	Ferruginous sandstone	(2)	153	3.61	(2)	(2)	14.0	9
9966	Greer	do	Argillaceous limestone	(2)	168	.73	4.7	8.5	15.7	8
9967	do	do	do	(2)	168	.59	4.7	8.5	15.7	9
9968	do	do	do	(2)	168	.73	4.8	8.3	14.0	9
9969	do	do	Siliceous limestone	(2)	168	.56	3.0	13.3	16.7	10
24624	do	do	Argillaceous limestone	26,485	169	.19	4.1	9.8	17.3	10
767	Morgantown	do	Limestone	(2)	168	.50	5.6	7.1	(2)	(2) 0
2514	do	do	Ferruginous sandstone	(2)	150	2.51	11.2	3.6	15.2	5
3071	do	do	Limestone	(2)	168	.46	4.7	8.5	17.1	11
2513	Opekiska (near)	do	Feldspathic sandstone	(2)	156	3.74	6.9	5.8	14.7	5
3065	Randall	do	Limestone	(2)	168	1.33	3.6	11.1	17.2	12
5610	Sturgisson	do	Siliceous limestone	22,440	168	.23	4.9	8.2	16.1	10
5612	do	do	Limestone	17,910	168	.55	4.4	9.1	16.0	6
5613	do	do	Argillaceous limestone	14,300	168	.74	4.3	9.3	14.2	4
5614	do	do	Calcareous sandstone	29,840	168	.29	2.9	13.8	16.8	11
5615	do	do	Impure limestone	19,650	168	.48	4.3	9.3	16.0	10
5616	do	do	Argillaceous limestone	24,850	168	.37	3.8	10.5	15.9	10
3024	Smithtown	do	Ferruginous sandstone	(2)	134	4.04	6.1	6.6	(2)	(2)
15812	Union	Monroe	Siliceous limestone	(2)	170	.20	5.3	7.5	16.3	8
15813	do	do	do	(2)	171	.27	4.6	8.7	16.0	9
15814	do	do	do	(2)	170	.19	2.9	13.8	17.3	13
5377	Berkeley Springs	Morgan	Limestone	(2)	168	.45	5.1	7.8	12.2	6
14733	do	do	Quartzite	(2)	164	.41	2.6	15.4	19.3	22
9560	do	do	Limestone	(2)	168	.51	7.1	5.6	15.8	4
9561	do	do	Sandstone	(2)	162	.94	5.1	7.8	19.0	10
9563	Berkeley Springs (2 miles south of)	do	Limestone	(2)	168	.36	6.5	6.2	(2)	(2)
9564	Berkeley Springs (near)	do	Ferruginous sandstone	(2)	168	.99	4.0	10.0	16.3	11
3001	Great Cacapon	do	Dolomite	(2)	172	.91	3.2	12.5	14.8	19
9562	Great Cacapon (near)	do	Sandstone	(2)	162	1.69	8.0	5.0	18.3	8

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

WEST VIRGINIA—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
23465	Paw Paw	Morgan	Ferruginous sandstone	(2)	168	0.48	6.2	6.5	18.3	15
9559	Sir Johns Run (near)	do	Sandstone	(2)	165	.61	3.0	13.3	18.8	12
1669	Elm Grove	Ohio	Limestone	(2)	165	1.48	4.8	8.3	(2)	7
1672	do	do	do	(2)	168	1.30	3.5	11.4	18.0	15
1670	Elm Grove (near)	do	do	(2)	168	.96	4.3	9.3	19.1	7
1668	Valley Grove (near)	do	do	(2)	165	1.78	4.2	9.5	17.2	11
6137	Wheeling	do	do	(2)	165	.95	4.2	9.5	15.7	12
1671	(1)	do	Dolomite	(2)	165	2.86	4.0	10.0	17.4	12
6925	Marlinton	Pocahontas	Limestone	(2)	172	.06	3.6	11.1	16.0	13
10348	Albright (near)	Preston	Sandstone	(2)	154	1.88	8.1	4.9	17.3	5
10349	do	do	Ferruginous sandstone	(2)	160	2.40	4.0	10.0	15.3	9
24420	Hardman	do	Limestone	32,800	167	.85	4.2	9.5	17.0	8
24421	do	do	Argillaceous limestone	27,950	162	2.62	4.7	8.5	16.0	9
20894	Irondale	do	do	(2)	162	2.38	5.7	7.0	(2)	(2)
20895	do	do	do	(2)	166	1.35	4.4	9.1	16.7	(2)
3492	Morgantown (5 miles from)	do	do	(2)	168	.16	4.9	8.2	14.2	9
2697	Rowlesburg	do	Limestone	(2)	168	1.14	8.4	4.8	(2)	(2)
2511	(1)	do	Dolomitic limestone	(2)	165	.34	2.2	18.2	18.0	14
14320	Hurricane	Putnam	Feldspathic sandstone	(2)	153	4.47	11.7	3.4	2.7	4
12787	Nitro	do	do	(2)	152	5.24	11.6	3.4	0.0	6
2891	Red House	do	Sandstone	(2)	153	3.90	11.8	3.4	3.5	3
11472	Beckley	Raleigh	do	(2)	156	3.07	3.1	12.9	15.0	6
16326	do	do	do	(2)	151	3.47	5.1	7.8	(2)	7
4796	Beckley (near)	do	do	(2)	162	.36	3.2	12.5	17.3	10
14133	do	do	Feldspathic sandstone	(2)	159	2.62	3.8	10.5	15.3	7
14134	do	do	Sandstone	(2)	153	3.03	4.5	8.9	17.2	6
11736	Bolt	do	Quartz conglomerate	(2)	151	3.23	31.6	1.3	(2)	(2)
16203	Cranberry	do	Feldspathic sandstone	(2)	159	2.19	8.0	5.0	11.3	5
11546	Daniels	do	Sandstone	(2)	155	2.24	4.8	8.3	16.7	7
11544	Ghent	do	do	(2)	158	2.32	4.2	9.5	17.3	8
11471	Lester (near)	do	do	(2)	150	3.60	9.5	4.2	13.3	5
16464	Price Hill	do	do	(2)	152	2.74	6.4	6.2	(2)	7
16487	Prosperity	do	do	(2)	156	1.96	4.4	9.1	16.3	10
11547	Shady Springs	do	do	(2)	156	2.44	4.9	8.2	18.0	6
11473	Surveyor	do	do	(2)	155	2.74	4.2	9.5	18.0	6
16146	do	do	do	(2)	156	2.64	3.4	11.8	17.7	10
14176	Sylvia	do	Feldspathic sandstone	(2)	160	1.69	6.1	6.6	14.8	6
11130	Trap Hill District	do	Sandstone	(2)	154	3.69	3.9	10.3	16.6	9

11545	(1)	do	do	(2)	152	3.14	8.2	4.9	16.7	4
3002	Alpena	Randolph	Limestone	(2)	168	.29	3.9	10.3	16.6	10
3067	Kingsville	do	Ferruginous sandstone	(2)	150	3.46	16.3	2.5	11.8	3
3004	Silica	do	Brecciated clay	(2)	159	1.99	(2)	(2)	(2)	(2)
3005	do	do	Sandstone	(2)	162	.63	(2)	(2)	18.5	10
3006	do	do	Argillaceous sandstone	(2)	165	1.16	(2)	(2)	(2)	(2)
13806	Spencer	Roane	Calcareous sandstone	(2)	156	1.79	4.4	9.1	10.7	6
14245	do	do	do	(2)	165	1.32	4.7	8.5	15.0	9
10036	Spencer (near)	do	Feldspathic sandstone	(2)	156	3.52	12.3	3.3	8.7	4
13571	do	do	Micaceous sandstone	(2)	156	4.22	8.9	4.5	2.0	8
13068	Talcott	Summers	Sandstone	(2)	162	1.28	2.3	17.4	17.8	13
19978	Blueville	Taylor	do	(2)	152	2.61	3.9	10.3	17.7	20
13296	Fetterman	do	Feldspathic sandstone	(2)	154	3.91	9.2	4.3	11.7	5
2966	Grafton	do	do	(2)	156	3.45	6.4	6.2	13.7	6
10509	Davis (near)	Tucker	Siliceous limestone	(2)	167	.05	3.7	10.8	14.3	10
10510	do	do	Argillaceous limestone	(2)	168	.12	5.0	8.0	16.3	6
13887	Middlebourne (near)	Tyler	Feldspathic sandstone	(2)	154	4.15	7.8	5.1	9.3	5
3028	Adrian	Upshur	Sandstone	(2)	156	2.89	14.1	2.8	17.3	3
2999	Newlon	do	do	(2)	153	1.80	19.3	2.1	10.0	4
2998	Sandrun	do	do	(2)	156	1.46	7.2	5.6	18.1	7
3236	(1)	do	Limestone	(2)	168	.56	3.7	10.8	16.9	10
2975	Webster Springs	Webster	do	(2)	168	.41	(2)	(2)	16.5	9
14281	Littleton (east of)	Wetzel	Feldspathic sandstone	(2)	144	6.22	19.1	2.1	9.0	3
14282	do	do	do	(2)	151	4.64	10.6	3.8	6.7	4
3064	Uniontown	do	Sandstone	(2)	150	2.85	28.2	1.4	8.3	3
3075	do	do	do	(2)	156	2.73	(2)	(2)	3.3	3
4871	Palestine	Wirt	Feldspathic sandstone	(2)	156	2.93	8.5	4.7	0.0	5
4872	do	do	do	(2)	156	2.39	16.3	2.5	7.7	4
2968	Parkersburg	Wood	do	(2)	156	4.32	7.7	5.2	0.0	6
8447	do	do	do	11,910	162	3.32	(2)	(2)	12.7	5
8448	(1)	do	do	(2)	165	.66	(2)	(2)	(2)	(2)
27412	(1)	do	Sandstone	(2)	136	5.21	(2)	(2)	14.7	3
27413	(1)	do	Feldspathic sandstone	(2)	142	4.89	18.8	2.1	11.0	3
2973	Bakers Ridge District	Wyoming	do	(2)	162	1.58	3.2	12.5	17.0	11
2971	Maben	do	Sandstone	(2)	162	.61	2.5	16.0	18.9	11

WISCONSIN

6542	Greenleaf	Brown	Dolomite	(2)	172	2.30	3.0	13.3	14.8	8
6504	Brillion	Calumet	do	(2)	165	1.35	7.5	5.3	12.2	5
14132	do	do	do	(2)	173	.98	4.6	8.7	12.5	4
6161	Columbus	Columbia	Argillaceous dolomite	(2)	165	2.75	5.7	7.0	12.7	3
5788	Bridgeport	Crawford	Siliceous dolomite	(2)	162	3.10	8.9	4.5	9.8	5
6223	do	do	Dolomite	(2)	175	.65	(2)	(2)	12.7	8
6216	Prairie du Chien	do	do	(2)	165	2.65	7.0	5.7	5.8	4
6209	Soldiers Grove	do	do	(2)	162	2.96	8.4	4.8	11.3	4
1009	Fitchburg Township	Dane	do	(2)	165	2.70	9.0	4.4	14.0	7
6438	Madison	do	Argillaceous dolomite	(2)	162	2.09	10.8	3.7	12.5	4

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

WISCONSIN—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French-coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
746	Madison Township	Dane	Rhyolite	(2)	165	0.09	2.4	16.7	(2)	(2)
6228	Middleton	do	Oolitic dolomite	(2)	172	1.90	5.1	7.8	15.7	10
11971	Springdale Township	do	Dolomite	(2)	172	1.27	3.7	10.8	16.0	12
5362	(1)	do	Argillaceous limestone	(2)	168	2.30	4.3	9.3	14.7	8
6062	(1)	do	Dolomite	(2)	175	1.21	8.9	4.5	14.0	10
6063	(1)	do	Siliceous dolomite	(2)	172	1.57	6.1	6.6	11.3	6
5791	(1)	do	Dolomite	(2)	175	.83	3.6	11.1	14.0	10
6500	Hubbard Township	Dodge	do	(2)	172	1.10	4.5	8.9	14.3	8
18746	Knowles	do	do	(2)	168	1.30	5.2	7.7	13.7	7
18744	Nasbro	do	do	(2)	172	1.01	3.8	10.5	14.7	8
1397	Portland Township	do	Quartzite	(2)	168	.14	2.8	14.3	19.0	19
5790	Richwood	do	Argillaceous dolomite	(2)	172	1.53	4.4	9.1	16.1	11
5046	Sturgeon Bay	Door	Dolomite	(2)	178	.26	4.5	8.9	14.2	12
5795	Commonwealth	Florence	Ferruginous slate	(2)	168	3.41	17.1	2.3	(2)	(2)
6202	Hamilton	Fond du Lac	Dolomite	(2)	162	1.67	3.6	11.1	(2)	(2)
6807	do	do	do	(2)	175	1.01	5.2	7.7	13.4	6
6203	Marblehead	do	do	(2)	175	.51	3.4	11.8	14.4	7
6479	do	do	do	(2)	175	.36	4.6	8.7	15.2	10
6752	do	do	do	(2)	178	.30	3.7	10.8	13.8	7
5523	Peebles	do	do	32,600	178	.51	5.4	7.4	13.7	8
6230	Cassville	Grant	do	(2)	168	1.43	9.6	4.2	12.3	4
6222	Hazel Green	do	Siliceous dolomite	(2)	165	1.88	7.1	5.6	15.2	5
6212	Lancaster	do	Limestone	(2)	162	1.67	4.1	9.8	14.8	8
6208	Platteville	do	Dolomite	(2)	172	1.57	7.4	5.4	15.0	5
6221	Brodhead	Green	Argillaceous dolomite	(2)	162	4.97	8.8	4.5	9.3	3
6227	do	do	Dolomite	(2)	162	4.72	11.1	3.6	14.1	4
6225	Martintown	do	Siliceous dolomite	(2)	162	3.33	11.4	3.5	16.2	5
6215	Monroe	do	Argillaceous dolomite	(2)	172	1.68	22.5	1.8	(2)	(2)
667	Berlin	Green Lake	Rhyolite	(2)	165	.05	1.8	22.5	(2)	(2)
668	do	do	do	(2)	165	.03	4.0	10.0	(2)	(2)
1427	do	do	do	(2)	165	.10	1.9	21.1	19.0	23
9999	do	do	do	(2)	165	.16	1.9	21.1	19.0	25
695	Utley	do	do	(2)	165	.04	5.0	8.0	(2)	(2)
696	do	do	do	(2)	165	.06	5.6	7.1	(2)	(2)
747	do	do	Dolomite	(2)	172	.87	4.1	9.8	(2)	(2)
1434	do	do	Rhyolite	(2)	162	.05	2.5	16.0	18.9	19
22530	do	do	do	(2)	164	.05	2.8	14.3	18.7	13
6207	Blue Mounds (near)	Iowa	Argillaceous dolomite	(2)	162	4.75	11.3	3.5	10.7	4
6224	do	do	Chert	(2)	150	3.16	3.3	12.1	(2)	(2)

6211	Mineral Point	do	Limestone	(2)	165	2.96	3.9	10.3	14.5	11
6213	do	do	do	(2)	168	.59	5.2	7.7	15.7	6
6160	Fort Atkinson	Jefferson	Dolomite	(2)	172	1.68	8.6	4.7	12.8	5
6244	Kewaunee	Kewaunee	Dolomitic marble	(2)	178	.22	3.8	10.5	12.8	6
18743	do	do	Dolomite	(2)	175	.63	4.3	9.3	16.0	8
2953	La Crosse	La Crosse	Chert	(2)	162	.58	(2)	(2)	19.7	26
2954	do	do	Dolomite	(2)	172	.89	(2)	(2)	15.0	9
2955	do	do	Limestone	(2)	172	1.11	(2)	(2)	17.3	6
2956	do	do	Dolomite	(2)	175	.98	(2)	(2)	14.8	7
2957	do	do	Biotite granite	(2)	165	.19	(2)	(2)	18.8	17
6210	Benton	Lafayette	Dolomite	(2)	168	2.16	12.9	3.1	12.8	4
6257	Darlington	do	Siliceous dolomite	(2)	168	1.87	5.5	7.3	14.5	5
9674	Maribel	Manitowoc	Dolomite	(2)	175	.33	5.2	7.7	13.7	7
6569	Quarry	do	do	(2)	175	.51	5.5	7.3	11.1	6
3448	Amberg	Marinette	Biotite granite	19,855	165	.25	2.4	16.7	18.8	13
10168	Buffalo	Marquette	Altered syenite	(2)	167	.13	2.2	18.2	19.3	30
18713	Liberty Bluff (near)	do	Sandstone	27,825	157	1.48	17.0	2.4	18.4	5
1442	Montello	do	Granite	(2)	165	.15	2.1	19.0	(2)	(2
14676	do	do	do	(2)	164	.25	2.4	16.7	18.7	16
21377	Westfield	do	Sandstone	29,190	153	2.44	12.1	3.3	15.0	4
1124	Granville	Milwaukee	Dolomite	(2)	175	.50	5.7	7.0	16.8	4
1284	do	do	do	(2)	175	.59	4.7	8.5	15.2	9
4944	Milwaukee	do	do	(2)	165	2.55	5.4	7.4	13.5	10
13537	do	do	Siliceous limestone	(2)	166	2.15	6.0	6.7	15.3	9
1285	North Milwaukee	do	Dolomite	(2)	159	3.92	3.9	10.3	8.2	6
1283	Wauwatosa	do	do	(2)	165	2.90	3.3	12.1	13.4	8
10014	do	do	Argillaceous dolomite	(2)	168	2.11	3.7	10.8	14.7	8
11367	do	do	Argillaceous limestone	20,370	163	3.20	2.1	19.0	14.0	8
11129	Wauwatosa (near)	do	Argillaceous dolomite	16,700	168	2.01	3.8	10.5	15.3	11
1282	(1)	do	Dolomite	(2)	162	2.47	8.5	4.7	13.4	8
12615	(1)	do	do	(2)	166	2.84	4.0	10.0	13.3	7
12616	(1)	do	Argillaceous dolomite	(2)	161	2.42	6.4	6.2	12.0	7
12617	(1)	do	do	(2)	164	3.21	4.5	8.9	14.3	10
12618	(1)	do	Dolomite	(2)	175	.14	6.5	6.2	16.0	6
12619	(1)	do	Argillaceous dolomite	(2)	167	2.66	3.7	10.8	14.3	10
10986	Wells Township	Monroe	Calcareous sandstone	(2)	162	2.79	4.8	8.3	18.0	5
6236	Appleton	Outagamie	Dolomite	(2)	175	.53	3.4	11.8	16.5	10
9970	Blackcreek	do	do	(2)	178	.58	4.6	8.7	14.7	9
9971	do	do	do	(2)	178	.53	4.1	9.8	15.3	8
6248	Kaukauna	do	do	(2)	175	1.03	4.1	9.8	(2)	(2)
3765	Belgium	Ozaukee	do	(2)	175	.60	5.4	7.4	15.6	9
4718	do	do	do	(2)	175	.65	5.3	7.5	14.2	8
10022	do	do	Argillaceous dolomite	(2)	175	1.15	7.4	5.4	14.3	8
11638	Cedarburg	do	Dolomite	(2)	178	1.13	5.6	7.1	15.0	7
6280	Grafton	do	do	(2)	165	1.38	6.3	6.3	11.1	5
11625	Mequon	do	do	22,750	174	1.09	3.4	11.8	12.3	7
6219	Prescott	Pierce	do	(2)	175	1.06	5.4	7.4	15.2	7
7395	Dresser Junction	Polk	Altered basalt	(2)	184	.22	2.2	18.2	18.8	19
8288	do	do	Altered diabase	(2)	184	.84	1.8	22.2	18.7	22
22237	do	do	do	(2)	185	.02	(2)	(2)	18.3	32
5829	Stevens Point	Portage	Sandstone	19,750	156	.59	5.2	7.7	18.5	12

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

WISCONSIN—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
5840	Stevens Point	Portage	Sandstone	(2)	159	0.77	3.6	11.1	18.8	13
20916	do	do	do	27,715	167	2.39	4.3	9.3	18.7	10
5799	Ives	Racine	Dolomite	17,580	168	.46	5.2	7.7	13.7	7
7548	do	do	do	(2)	165	.73	6.9	5.8	14.0	8
7549	do	do	do	(2)	165	.59	7.1	5.6	11.0	6
7624	do	do	do	(2)	168	.79	7.3	5.5	14.0	6
7743	do	do	do	(2)	165	.72	6.0	6.7	13.8	8
8039	do	do	do	(2)	168	.46	6.9	5.8	14.9	7
6503	Racine	do	do	(2)	162	1.20	5.6	7.1	(2)	(2)
10028	do	do	do	(2)	168	1.05	7.1	5.6	13.3	6
6214	Beloit	Rock	Argillaceous dolomite	(2)	165	3.76	8.9	4.5	14.2	5
6217	do	do	do	(2)	159	5.89	8.6	4.7	15.3	7
6226	do	do	Siliceous dolomite	(2)	168	2.36	8.1	4.9	10.5	5
6229	do	do	Dolomite	(2)	168	2.83	8.1	4.9	9.4	6
2200	Clinton	do	Dolomitic limestone	(2)	172	1.77	7.4	5.4	12.5	5
2201	do	do	do	(2)	165	2.99	8.4	4.8	11.3	4
2202	do	do	do	(2)	175	1.95	5.8	6.9	14.0	7
6535	Fulton	do	Argillaceous dolomite	(2)	168	2.35	5.6	7.1	12.0	7
6218	Janesville	do	do	(2)	172	.14	4.3	9.3	14.5	6
6220	do	do	Dolomite	(2)	168	2.24	2.3	17.4	15.0	8
1437	Ableman	Sauk	Quartzite	(2)	165	.13	3.4	11.8	(2)	(2)
6497	do	do	Sandstone	(2)	153	.81	10.7	3.7	15.7	3
6498	do	do	do	(2)	153	.82	3.4	11.8	18.4	9
8259	do	do	do	(2)	156	.88	2.7	14.8	19.0	10
21367	do	do	do	15,275	147	3.10	20.2	2.0	13.3	5
6249	Sheboygan	Sheboygan	Dolomite	(2)	172	.50	3.8	10.5	13.3	7
6247	do	do	Dolomitic marble	(2)	172	.63	4.8	8.3	12.7	5
6159	Whitewater	Walworth	Dolomite	(2)	168	2.27	6.4	6.2	13.3	7
1145	Jackson	Washington	do	(2)	175	.84	4.9	8.2	16.0	5
3491	do	do	do	(2)	162	3.39	6.2	6.5	12.3	4
3509	Lannon	Waukesha	do	(2)	1.75	.91	3.4	11.8	15.9	13
3800	do	do	do	(2)	172	1.12	3.2	12.5	16.1	13
6171	do	do	do	(2)	168	2.03	6.7	6.0	13.3	9
6173	do	do	do	(2)	175	.88	3.5	11.4	15.6	10
8656	do	do	do	23,020	175	.85	3.6	11.1	15.4	10
6170	Pewaukee	do	do	(2)	172	1.84	4.1	9.8	15.3	13
6172	Waukesha	do	do	(2)	172	1.56	3.6	11.1	15.0	7
1408	Waupaca	Waupaca	Granite	(2)	162	1.96	1.4	28.6	18.9	29

8018	do	do	Biotite granite	(2)	168	.25	4.1	9.8	18.7	5
3011	Waupaca (2 miles north)	do	do	(2)	168	.15	5.3	7.5	19.0	9
1432	Lohrville	Waushara	Granite	(2)	165	.19	2.7	14.8	18.4	21
1540	do	do	do	(2)	(2)	(2)	2.4	16.4	(2)	(2)
1574	do	do	do	(2)	168	.26	2.0	20.0	19.0	(2)
1398	Neshkoro (near)	do	do	(2)	165	.42	1.5	26.7	19.2	24
1431	Redgranite	do	do	(2)	165	.14	1.1	36.4	18.8	25
11447	do	do	do	(2)	165	.33	1.4	28.6	19.3	14
5586	do	do	do	33,880	(2)	(2)	(2)	(2)	19.0	14
24692	do	do	Porphyritic granite	45,450	164	.20	2.0	20.0	18.7	16
1435	Spring Lake	do	Granite	(2)	165	.30	1.5	26.7	18.9	23
6573	Neenah	Winnebago	Dolomite	(2)	168	2.68	4.1	9.8	14.3	9
6237	Oshkosh	do	Sandstone	(2)	175	.65	3.8	10.5	15.5	8
6246	Omro	do	Dolomite	(2)	172	1.65	5.6	7.1	16.3	7
6487	Poygan	do	do	(2)	175	.62	3.4	11.8	14.7	11
8920	Rudolph	Wood	Sandstone	(2)	156	1.10	3.4	11.8	18.7	5
10159	Wisconsin Rapids	do	do	(2)	153	1.91	3.3	12.1	18.3	5
5796	(1)	(1)	Ferruginous sandstone	(2)	140	4.51	25.2	1.6	.0	3
6174	(1)	(1)	Dolomite	(2)	172	1.35	5.6	7.1	15.5	11
6175	(1)	(1)	Argillaceous dolomite	(2)	168	2.67	7.4	5.4	13.3	12
6176	(1)	(1)	do	(2)	165	3.59	7.6	5.3	4.0	3
6177	(1)	(1)	do	(2)	165	2.82	6.1	6.6	12.7	5
6178	(1)	(1)	Dolomite	(2)	162	2.51	8.0	5.0	12.0	3
6179	(1)	(1)	Argillaceous dolomite	(2)	153	6.90	7.3	5.5	12.7	5
6180	(1)	(1)	do	(2)	168	2.96	7.3	5.5	15.0	7
6181	(1)	(1)	do	(2)	168	1.86	10.7	3.7	11.7	7
6182	(1)	(1)	Dolomite	(2)	159	3.13	11.3	3.5	11.7	4
6183	(1)	(1)	Siliceous dolomite	(2)	162	3.68	9.9	4.0	4.5	2
6184	(1)	(1)	Dolomite	(2)	175	.86	9.2	4.3	13.7	4
6185	(1)	(1)	Argillaceous dolomite	(2)	168	2.99	5.4	7.4	13.2	6
6186	(1)	(1)	do	(2)	168	3.01	8.1	4.9	15.0	7
6231	(1)	(1)	Dolomite	(2)	162	3.44	6.1	6.6	14.5	4
6232	(1)	(1)	do	(2)	165	3.41	6.5	6.2	16.0	9
6233	(1)	(1)	Argillaceous limestone	(2)	165	.78	6.2	6.5	(2)	(2)
			WYOMING							
26365	Cody	Park	Dolomite	(2)	162	2.13	6.4	6.2	15.3	4
2380	Fort MacKenzie	Sheridan	Calcareous sandstone	(2)	165	1.86	4.2	9.5	15.3	6
2209	do	do	do	(2)	168	1.49	2.7	14.8	15.3	10
6452	Sheridan	do	Ferruginous sandstone	(2)	150	7.55	14.4	2.8	5.0	9
			ALASKA							
11528	Tokeen		Marble	(2)	168	.45	(2)	(2)	7.3	4

[1] Exact location not known.

[2] Test not made.

TABLE 5.—*Results of tests of road-building rock to January 1, 1928*—Continued

Laboratory No.	Town or city	County	Material	Crushing strength	Weight per cubic foot	Absorption	Per cent of wear	French coefficient of wear	Hardness	Toughness
				Lbs. per sq. in.	*Pounds*	*Lbs. per cu. ft.*				
HAWAII										
24245	(1)	Honolulu	Diabase	(2)	175	1.11	3.1	12.9	14.7	6
24246	(1)	do	do	(2)	180	1.13	3.2	12.5	15.0	8
PORTO RICO										
797	Arecibo	Arecibo	Limestone	(2)	156	0.87	7.4	5.4	(2)	(2)
802	Manati	do	do	(2)	165	.96	5.2	7.7	(2)	(2)
801	Utuado	do	Diorite	(2)	168	.39	4.0	10.0	(2)	(2)
794	Cayey	Guayama	Limestone	(2)	168	.08	5.1	7.8	14.6	10
800	Comerio	do	do	(2)	168	.11	6.0	6.7	15.5	6
804	Gurabo	Humacao	Basalt breccia	(2)	187	.25	3.5	11.4	17.2	21
796	Juncos	do	Diorite	(2)	175	.09	2.8	14.3	(2)	(2)
795	Bayamon	San Juan	Limestone	(2)	165	.60	5.3	7.5	(2)	(2)
798	Carolina	do	do	(2)	168	.49	5.2	7.7	15.3	7
793	Rio Piedras	do	do	(2)	168	.20	5.8	6.9	14.1	7
799	do	do	do	(2)	162	.83	6.3	6.3	13.3	(2)
803	do	do	Basalt tuff	(2)	168	1.10	3.5	11.4	(2)	20
21071	do	do	Limestone	20,320	168	.19	5.2	7.7	13.7	5

[1] Exact location not known.

[2] Test not made.

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